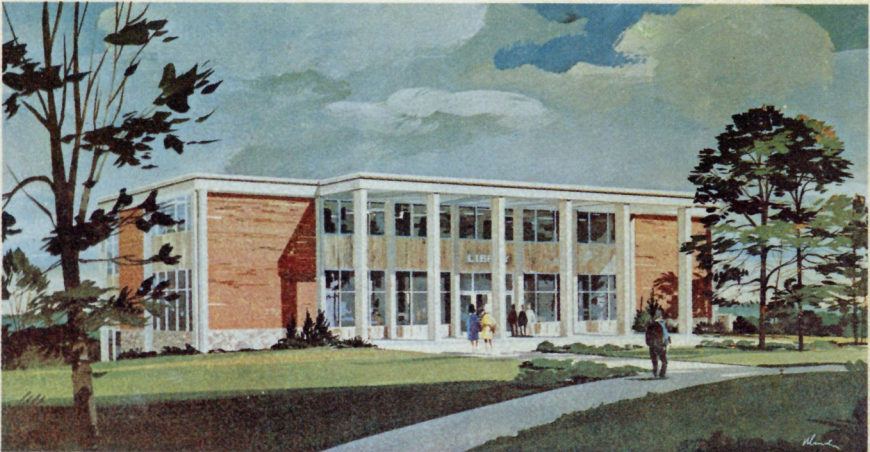


MISSOURI SOUTHERN COLLEGE



SPIVA LIBRARY

ANNUAL CATALOG
1967-1968

JOPLIN, MISSOURI

- Public, co-educational, unique organizational structure *VB*
- Outstanding teaching faculty
- Focus interest on student
- Advising and counseling services
- Accent excellence and rigor in all programs *quality at level*
- "Open door" admission for Missouri residents *restricted to academic policies*
- Certificate, Associate Degree, Bachelor's Degree Programs

This catalogue is a description and official register of Missouri Southern College, a two-year junior college and a two-year senior college.

In general, the catalogue may be considered a working agreement between student and college. A student will be permitted to graduate under the terms of the catalogue of the year in which he matriculates or of that year in which he plans to graduate, as he elects.

The college reserves the right to revise any provision or requirement at any time within the student's term of attendance when such revision seems advisable in the interest of the student and the total college program. The college may not be restricted from amending any regulations when it deems necessary. The student is responsible for being aware of and fulfilling all conditions set forth in this catalogue.

MISSOURI SOUTHERN COLLEGE

JOPLIN, MISSOURI



A TWO-YEAR JUNIOR COLLEGE
AND
A TWO-YEAR SENIOR COLLEGE

ANNUAL CATALOG
1967 - 1968

MISSOURI SOUTHERN COLLEGE

CAMPUS PLAN

1. MUSIC BUILDING
2. ART BUILDING
3. PARKING
4. BRICK BUILDING
5. SP/AL LIBRARY
6. FACULTY PARKING
7. COCKEY TRAINING CENTER
8. ATHLETIC FIELD
9. PARKING
10. STUDENT UNION
11. COLLEGE UNION
12. DUPLICATING OFFICE
13. POST OFFICE
14. STUDENT PERSONNEL
15. CARETAKER
16. HORSES TRAINING FIELD
17. AUTOMOTIVE TECHNOLOGY
18. BARN THEATER
19. STUDENT UNION
20. MAINTENANCE SHOP
21. PARKING
22. MENTAL RETARDATION CENTER

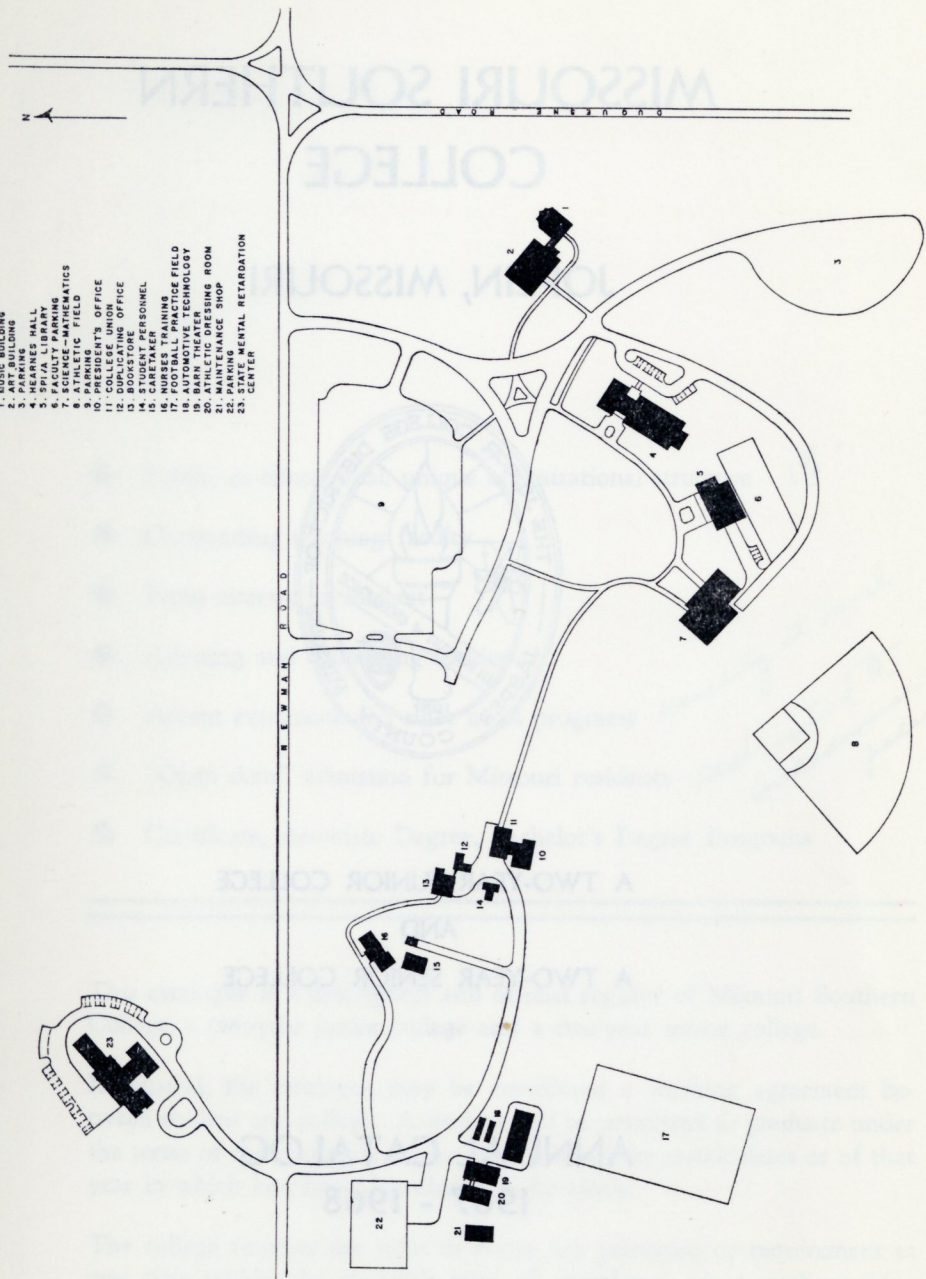


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COLLEGE CALENDAR 1967-1968

SUMMER SESSION — 1967

Eight Weeks Session

June 7 (9:00 A.M. - 4:00 P.M.) Enrollment and Registration
 June 8 Classwork begins
 June 12 Last day for late enrollment
 June 12 No refund in fees after this date
 June 16 Final date for dropping course without grade report
 July 4 Holiday
 August 4 Final Examinations
 August 4 Eight weeks Summer Session Closes

FIRST SEMESTER—1967-1968

June 12 through July 28 Orientation and Enrollment
 September 5 Last day to file application for admission
 September 5 (6:30 P.M.) Enrollment and Registration for Evening School
 September 6, 7, and 8 Registration
 September 11 Classwork begins
 September 12 Late Orientation, Enrollment, and Registration
 September 15 Last day for class changes
 September 15 Last day for Orientation, Enrollment, and Registration
 October 6 Withdrawal after this date no refund of fees
 October 6 Last day to drop courses without grade report
 November 10 Midsemester D and F grades report
 November 23 (after last class) Dismissal for Thanksgiving
 November 27 Classes reconvene
 December 15 (after last class) Dismissal for Christmas
 January 2 Classes reconvene
 January 15, 16, 17, and 18 Final Examinations
 January 19 End of first semester

SECOND SEMESTER—1967-1968

January 22 and 23 Orientation and Enrollment of new students
 January 22 (6:30 P.M.) Enrollment and Registration for Evening School
 January 23 Last day to file application for admission
 January 24 Late Enrollment of new students
 January 24, 25, and 26 Registration
 January 29 Classwork begins
 February 2 Last day for class changes
 February 2 Last day for Orientation, Enrollment and Registration
 February 23 Withdrawal after this date no refund of fees
 February 23 Last day to drop classes without grade report
 March 22 Midsemester D and F grade reports
 April 11 (after last class) Dismissal for Easter
 April 16 Classes reconvene
 May 23, 24, 27, and 28 Final Examinations
 May 26, Baccalaureate
 May 29 End of second semester
 May 31 Commencement

**MISSOURI SOUTHERN COLLEGE
THE JUNIOR COLLEGE DISTRICT
OF JASPER COUNTY
1967-1968**

BOARD OF REGENTS

Fred Hughes, President 1970
Thomas E. Taylor, Vice-President 1969
*Elvin Ummel, Secretary
*Gene Taylor, Treasurer
Mills H. Anderson 1971
Norval M. Matthews 1967
L. R. Reynolds, Jr. 1968

BOARD OF TRUSTEES

Fred Hughes, President 1970
Gene Taylor, Vice-President 1972
Norval M. Matthews, Secretary 1968
*Mills H. Anderson, Treasurer
L. R. Reynolds, Jr. 1968
Thomas E. Taylor 1970
Elvin Ummel 1972
* Appointed by respective boards

GENERAL ADMINISTRATION

Leon C. Billingsly President
B. S., Southwest Missouri State College; M. S., Kansas State
College of Pittsburg; Ed. D., University of Arkansas

Paul R. Shipman Administrative Assistant
B. S. E., Southwest Missouri State College; M. S., Kansas State
College of Pittsburg; Ed. D., University of Arkansas

Fred Cinotto Dean of College
B. S., M. S., Kansas State College of Pittsburg

Floyd E. Belk Director of Institutional Research
B. S., M. S., Kansas State College of Pittsburg; Ed. D.,
Oklahoma State University

DIVISION CHAIRMEN

- James J. Altendorf Science and Mathematics
B. S., M. S., Kansas State College of Pittsburg; Ed. D.,
Oklahoma State University
- Ervin J. Dunham Humanities and Fine Arts
B. J., A. B., B. Mus., University of Missouri; M. Music,
University of Colorado; A. Mus. D., University of Arizona
- Harry C. Gockel Social Sciences
A. B., A. M., Washington University; M. S., University of
Wisconsin
- L. Keith Larimore Business and Economics
B. S. B. A., Kansas State College of Pittsburg; M. B. A.,
University of Oklahoma; (Candidate for Ph. D., University
of Arkansas)
- James K. Maupin Dean of Semi-Professional and Technical
B. S., Central Missouri State College; M. S., Kansas
State College of Pittsburg
- Charles F. Niess Education and Psychology, and P.E.
B. S., M. S., Central Missouri State College; Ed. D.,
Colorado State College

STUDENT PERSONNEL OFFICERS

- (Position to be Filled) Dean of Student Personnel Services
- Floyd E. Belk Director of Admissions
B. S., M. S., Kansas State College of Pittsburg; Ed. D.,
Oklahoma State University
- Margaret Mitchell Registrar
B. S., Southwest Missouri State College; M. B. A.,
University of Denver
- Lloyd L. Dryer Director of Guidance and Counseling
B. S., M. A., Ed. D., Oklahoma State University
- Dudley F. Stegge Dean of Students
B. S., M. S., Kansas State College of Pittsburg
- George H. Volmert Counselor
B. S., M. A., Northeast Missouri State Teachers College
- Douglas Landrith Director of Athletics
B. S., M. S., Kansas State College of Pittsburg

LIBRARIANS

- Mrs. Loretta Frazier Librarian
B. S., Northwest Missouri State College; B. S. in Library
Science, University of Illinois
- Mrs. Cora Ditto Assistant Librarian
B. S., Kansas State College of Pittsburg; M. S., K. S. T. C.,
Emporia

FACULTY

- James J. Altendorf Associate Professor of Chemistry
B. S., M. S., Kansas State College of Pittsburg; Ed. D., Oklahoma
State University
- V. L. Anderson Instructor of Drafting
B. S., Northwest Missouri State College; Stout Institute; M. S.,
Kansas State College of Pittsburg
- Floyd E. Belk Assistant Professor of Education and Psychology
B. S., M. S., Kansas State College of Pittsburg; Ed. D., Oklahoma
State University
- Marie Bickett Instructor of English
B. S., Mount Marty College, Yankton, South Dakota; M. S.,
Creighton University, Omaha, Nebraska
- David C. Bingman Instructor of Biology and Physiology
B. S., M. S., Kansas State College of Pittsburg
- M. Jane Blades Instructor of English
B. S., University of Kansas; M. A., Kansas State College of
Pittsburg
- Mrs. Enid Blevins Instructor of English
B. S., Southwest Missouri State College; M. S., Kansas State
College of Pittsburg
- Arhur Boles Assistant Professor of Art
B. F. A., Chicago Art Institute; M. S. A. E., Illinois Institute
of Technology
- Milton W. Brietzke Assistant Professor of Speech and Drama
A. B., San Jose State College; M. A., Western Reserve University
- C. E. Cowan Assistant Professor of Business
B. S., Southwest Missouri State College; M. Ed., University of
Missouri
- Darral A. Dishman Instructor of Art
B. F. A., Kansas City Art Institute; M. S. A. E., Kansas State
College of Pittsburg
- Lloyd L. Dryer Associate Professor of Psychology
B. S., M. A., Ed. D., Oklahoma State University
- Ervin J. Dunham Assistant Profesof of Music
B. J., A. B., B. Mus., University of Missouri; M. Music, University
of Colorado; A. Mus. D., University of Arizona
- Larry D. Dunham Instructor of English
B. A., M. A., University of Missouri
- John G. Eli Instructor of Sociology
B. S., M. S., Kansas State College of Pittsburg
- Mrs. Barbara N. Frizzell Instructor of English
B. A., M. A., University of Arkansas

- John Barry Gilmore Instructor of Business and Economics
B. B. A., Evangel College, Springfield, Missouri; M. A., The
University of Tulsa
- Harry C. Gockel Assistant Professor of Geography
A. B., A. M., Washington University; M. S., University of
Wisconsin
- Charles O. Gosch Instructor of Physical Sciences
A. B., Baker University, Baldwin, Kansas; A. M., Stanford
University, California
- R. Wayne Habermehl Instructor of Biology
B. S., Louisiana Polytechnic Institute, Ruston; M. S., Kansas
State University, Manhattan
- Cleetis Headlee Assistant Professor of English and Journalism
B. S., A. M., University of Missouri
- T. L. Holman Instructor of History
A. B., Southwestern College, Winfield, Kansas; M. A., Kansas
State College of Pittsburg
- Mrs. Julie Hughes Instructor of History
B. S., M. A., Kansas State College of Pittsburg
- Juanita Hulen, R.N. Instructor of Nursing
B. S., M. S., Kansas State College of Pittsburg; R. N., University
of Kansas
- Duane L. Hunt Instructor of Speech and Drama
A. B., Southwest Missouri State College; M. A., University of
Arkansas
- Mrs. Gwen Hunt Instructor of English
B. S., Southwest Missouri State College; M. A., University of
Arkansas
- Paul E. Jensen Instructor of Mathematics
B. S., Oklahoma City University; M. S., Kansas State College of
Pittsburg
- Harrison M. Kash Instructor of Chemistry
B. A., Kansas State College of Pittsburg; M. S., Kansas State
University, Manhattan
- Forrest D. Kellogg Assistant Professor of Sociology and Philosophy
A. B., Simpson College; (Course work complete for Ph. D.,
University of Missouri)
- Mrs. Pamela Kendrick Instructor of Mathematics
B. S., Kansas State College of Pittsburg
- Mrs. Kathryn Koger Instructor of Business
B. S., Kansas State College of Pittsburg; M. B. E., The University
of Tulsa

- Douglas Landrith Instructor of Physical Education
B. S., M. S., Kansas State College of Pittsburg
- L. Keith Larimore Assistant Professor of Business and Economics
B. S. B. A., Kansas State College of Pittsburg; M. B. A., University of Oklahoma; (Candidate for Ph. D., University of Arkansas)
- J. Larry Martin Instructor of Mathematics
B. S., M. S., The University of Tulsa
- Dwight E. Mason Instructor of Automotive Technology
B. S., Oklahoma State University
- Martha Ann McCormick Assistant Professor of Mathematics
Ph. B., A. M., University of Chicago
- Mrs. Lorine Miner Instructor of Business
B. S., M. S., Kansas State College of Pittsburg
- Mrs. Grace Clayton Mitchell .. Assistant Professor of English and Speech
A. B., Greensboro College; M. A., Pennsylvania State University
- Charles F. Niess Associate Professor of Education and Psychology
B. S., M. S., Central Missouri State College; Ed. D., Colorado State College
- Orty E. Orr Associate Professor of Biology
B. S., Kansas State College of Pittsburg; M. S., Ph. D., Oklahoma State University
- Eula Ratekin Assistant Professor of Chemistry
A. B., A. M., University of Missouri
- Gail K. Renner Instructor of Political Sciences
B. S., Southwest Missouri State College; M. A., University of Missouri, Kansas City; M. A., University of Missouri, Columbia
- Alfred H. Rogers Instructor of History
B. S., M. A., Kansas State College of Pittsburg; M. A., University of Missouri, Columbia
- Mrs. Jenean Sears, R.N. Instructor of Nursing
B. S. N., University of Kansas
- Mrs. Bobbie Z. Short Instructor of English and Speech
B. S., Southwest Missouri State College; M. S., Kansas State College of Pittsburg
- Glenn D. Smith Instructor of Physical Sciences
B. S., Kansas State College of Pittsburg; M. E., University of Kansas

- Oliver Sovereign Instructor of Music
 B. S., Kansas State College of Pittsburg; Studied with Herbert Wall, University of Missouri; Vincent Hubbard and Stephen Townsend, Boston; Louis Graveure and Enrico Rasati, New York City
- Mrs. Lillian Spangler Assistant Professor of Foreign Languages
 A. B., A. M., University of Missouri
- Sam J. Starkey Assistant Professor of Education and Psychology
 B. S., M. E., University of Arkansas
- Mrs. Annetta St. Clair Instructor of Political Sciences
 A. B., M. A., Kansas State College of Pittsburg
- Dudley F. Stegge Assistant Professor of Physical Education
 B. S., M. S., Kansas State College of Pittsburg
- Dorothy Stone Assistant Professor of Business
 B. S., A. M., University of Missouri
- Arthur L. Strobel Instructor of Physics
 B. S., Southeast Missouri State College; M. S., University of Arkansas
- Ronald Toman Instructor of Physical Education
 B. S., M. E., University of Missouri
- Mrs. Ima J. Van Natter Instructor of English
 A. B., Friends University, Wichita, Kansas; M. S., Kansas State College of Pittsburg
- Mrs. Bessie Vediz, R.N. Instructor of Nursing
 B. S., M. S., Kansas State College of Pittsburg
- Mrs. Ruby A. Wiley Instructor of Foreign Languages
 B. S., Southwest Missouri State College; M. A., University of Missouri
- Venus Yount Instructor of Physical Education
 B. S., Kansas State College of Pittsburg; M. A., University of Arkansas

DIRECTION FOR CORRESPONDENCE

MISSOURI SOUTHERN COLLEGE

Newman and Duquesne Roads

Joplin, Missouri 64801

Admissions of students	Director of Admissions
Alumni affairs	Director of Alumni Relations
Athletic activities	Director of Athletics
Business affairs and purchases	Business Manager
Catalog and bulletins	Director of Admissions
Credit evaluation and transcripts	Registrar
Employment (student part-time)	Dean of Students
Evening School	Director of Evening School
Faculty appointments	Dean of College
Gifts and annuities	Business Manager
Housing	Dean of Students
Loans	Dean of Semi-Professional and Technical Education
Orientation	Dean of Students
Public Events and Calendar	Dean of Students
Scholarships, Aids and Awards	Chairman of Aids and Awards
Student Organizations	Dean of Students
Summer Session	Dean of College
Testing and Counseling	Director of Guidance and Counseling
Veterans affairs	Registrar

GENERAL INFORMATION

THE COMMUNITY AND SERVICE AREA

Missouri Southern College is situated in Southwest Missouri, three miles from the Kansas state line, 40 miles from the Arkansas border, and 15 miles from Oklahoma. In this southwest part of Missouri lies a nine-county area comprising approximately 200,000 people.

The campus, located at the northeast edge of Joplin on 230 acres of gently rolling land, is within commuting distance of a large college population. Joplin, a city of 43,000, is the hub of a four-state area with its network of east-west and north-south major highways and good air transportation schedules. Known in the early 1900's as an area of diversified agricultural activities and lead and zinc mining, it is even better known today as a rapidly growing industrial and service center. It is within easy driving distance of the Ozarks, one of the great recreational areas of the United States. Cultural activities, educational programs from kindergarten to college, and beautiful churches for all faiths are ideal for a college setting.

HISTORY

Missouri Southern College, supported by the Junior College District of Jasper County, had its beginning in 1937 as a part of the Joplin Public School System. The first year of operation, classes were conducted in the Joplin Senior High School building functioning through the Extension Division of the University of Missouri.

On September 6, 1938, the College moved into its own building at Fourth Street and Byers Avenue and offered a full two-year college transfer program. Franklin Technical School (13th and Pearl Streets) dedicated March 21, 1948, provided college-level technical programs for students who wanted to prepare themselves for a job at the end of two years. In 1958, the College was moved to 310 West Eighth Street, a location used until the close of the 1966-1967 school year.

On April 7, 1964, County voters created the Junior College District of Jasper County and named a six-member Board of Trustees. After operating for 27 years as a part of the Joplin Public School System, the College became a separate entity, known as Jasper County Junior College encompassing all of Jasper County and parts of three other counties—Newton, Lawrence and Barton.

On July 22, 1965, the 73rd General Assembly of the Missouri Legislature passed House Bill No. 210 which provided for the establishment of a two-year state senior college in Jasper County, Missouri, when facilities of the Junior College District of Jasper County are made available. In anticipation of the possible passage of this legislation, the College Board of Trustees adopted the name Missouri Southern College, May, 1965.

The Bill provided for a five-member Board of Regents, appointed by the Governor, to assume the responsibility for the administration of the College. The appointments, made on October 13, 1965, mark the be-

ginning of the operation of the College under the Board of Regents. The Board of Trustees, as directed by law, assumed the responsibility to levy a tax within the district which together with state junior college aid and funds available from other sources, will be sufficient to pay the costs of the operation of the junior college and costs of any capita limprovements for both the junior and senior college.

COLLEGE PROFILE

Missouri Southern College is a very unique institution that combines a two-year, locally supported junior college with a two-year, state supported senior college. The first two years are supported by The Junior College District of Jasper County, while the third and fourth years are state supported. The administration of all four years is vested in a five-member Board of Regents appointed by the Governor. *Read*

The unique organizational pattern of Missouri Southern College allows a great deal of flexibility. An open door comprehensive junior college that offers a liberal arts and pre-professional transfer program, terminal programs in technical education, and certificate programs is available for the first two years. The third and fourth years are designed for teacher education, business administration, and liberal arts programs. The faculty and administration of Missouri Southern serve both colleges.

PHILOSOPHY AND PURPOSES

Missouri Southern College is dedicated to the principle of developing a college community wherein all members shall be given the opportunity to learn, not only for the sake of learning, but for the purpose of revealing to the individual ways to live a better life. This principle will enable the individual to live a more responsible and productive life commensurate with his fullest potential.

Since higher education will benefit both the individual and the society of which he is a member, Missouri Southern College offers a diversity of study designed to satisfy a wide range of student interests. The College proposes to maintain the high quality of instruction at all levels which has been its tradition as a junior college.

Missouri Southern College shares a responsibility with other state colleges to serve any eligible student in the State of Missouri who may apply for admission. In addition, the College also recognizes its responsibility and obligation to the citizens of The Junior College District of Jasper County as it makes every effort to serve the needs of a community.

The College attempts to fulfill its obligation to both state and community by

- providing a program of general education for all students;
- preparing a student for professional and graduate programs of study;
- preparing teachers for elementary and secondary schools;

preparing students for business, industry, and government;
providing a variety of technical programs;
serving as a center for adult education and community activities.

OBJECTIVES OF GENERAL EDUCATION

Recognizing the limitations of undergraduate specialization, Missouri Southern College has developed a program of General Studies that offers the student an opportunity to open his mind to varied fields of knowledge thus producing an intellectually balanced individual with a foundation for continued learning. Specialization provides depth; general education provides breadth. The excitement of these experiences is shared by faculty and students of Missouri Southern College.

Within a carefully planned program of correlated materials in the traditional areas of learning, the student pursues a variety of studies. As he learns about himself, both as an individual and a member of society, and as he explores the world he inhabits, he is urged to adopt habits of individual thought. If the college stimulates intellectual curiosity and if the student learns to think effectively, both become potential contributors to the community and society.

Although it is difficult to state objectives of General Education in a detailed manner, some guidelines for the faculty to use in planning the curriculum are necessary. The selected courses, required of all students pursuing degree programs, should benefit the student in many ways. They should

- objectives - Behavioral changes*
- improve skills of communication and develop mathematical proficiency;
 - give an understanding of the leading intellectual ideas of western civilization, and appreciation of democratic heritage, and and responsibility as a citizen;
 - develop awareness and appreciation of the basic values in our cultural heritage, and aid in the development of creative and independent thought and expression;
 - provide knowledge and understanding concerning the physical universe;
 - make him aware of the importance of health; and
 - provide experiences conducive to the development of strength of character and personality.

Gen. Ed. Course requirements are listed on pages 44, 41 & 53

ACCREDITATION

Missouri Southern College has been accredited by the North Central Association of Colleges and Secondary Schools as a junior college since 1949. Action for accreditation of the senior division by the North Central Association will be forthcoming at the annual meeting in April, 1967. The College is also accredited by the State Department of Education.

Missouri Southern College maintains membership in the American Association of Junior Colleges and the Council of North Central Junior Colleges.

THE CAMPUS

Missouri Southern College is located on a beautifully landscaped, spacious campus of 230 acres at the northeast edge of Joplin. The main campus has 160 acres on which are located five new brick and Carthage stone buildings. In addition, a number of buildings are being remodeled for instructional and student activity use. Seventy acres are reserved for the construction of student housing facilities in the near future.

SPIVA LIBRARY was the first building to be completed on the new campus. It sets the tone for an intellectual climate. Open stacks, listening laboratories that utilize dialogue equipment, conference rooms, and typing stations provide the students with excellent facilities for study and research.

HEARNES HALL is the administration headquarters and the reception center of the campus. In addition, it includes classrooms for instructional services and faculty offices.

THE SCIENCE AND MATH BUILDING includes three large elevated lecture rooms completely equipped for the presentation of lecture-table demonstrations. In addition, both natural and physical science laboratories show functional design. Provisions for classrooms and faculty offices complete the requirements of science and mathematics programs.

THE FINE ARTS COMPLEX is two buildings connected by an arcade. In one section are modern facilities for vocal and instrumental music instruction with individual practice rooms. The second building is designed for instruction in all areas of art and includes a large exhibit hall.

THE AUTO TECH BUILDING provides facilities for instructional services in automotive technology. It includes classroom space, storeroom facilities, ample laboratory accommodations, and offices for the instructors.

THE NURSING PROGRAM BUILDING houses the two-year degree nursing program. It is a modern six room house converted to accommodate the activities of this degree program.

THE LITTLE THEATRE is a renovated large barn. The upper level will be used for performances, and the lower level provides facilities for dressing rooms and lounge area.

THE CAFETERIA will be housed in a new structure of Spanish design to blend with an attached building, a two-story Spanish home which is used for offices.

THE COLLEGE BOOKSTORE is located near the cafeteria. It is the center for rental books to the student body and for supplies and supplemental materials.

SCHEDULE OF FEES AND CHARGES

All fees and other charges are due and payable at the time of registration each semester. Registration is not complete until all fees are paid.

The College reserves the right to change fees and other charges without notice.

ACTIVITY FEES: (Per semester)

- I. For all students enrolled in eight semester hours or more.

Student Activity	<i>per book</i> \$15.00
College Union	10.00
- II. For all students enrolled in less than eight semester hours

College Union	\$ 5.00
---------------------	---------

INCIDENTAL FEES: (Per semester)

- I. Residents of Junior College District of Jasper County

Junior College Division Courses	\$ 3.00 per sem. hr.
Senior College Division Courses	6.00 per sem. hr.
- II. Residents of Missouri (Outside Junior College District)

Junior College Division Courses	\$ 6.00 per sem. hr.
Senior College Division Courses	6.00 per sem. hr.
- III. Non-Residents (Out-of-state)

Junior College Division Courses	\$10.00 per sem. hr.
Senior College Division Courses	10.00 per sem. hr.

OTHER CHARGES:

Application for admission	\$ 5.00
Late registration	5.00
Change of class schedule	1.00
Commencement	10.00
Transcripts	1.00
Applied Music	32.00
Textbook rental (\$15.00 refundable)	\$30.00
Laboratory breakage and materials	(cost)

Application For Admission: An application fee of \$5.00 is charged for processing applications for admission. The payment of this fee should be mailed with the application. If the student registers at Missouri Southern College, the \$5.00 will be applied to his registration fees. **This fee is not refundable.**

Late Registration: A late registration fee of \$1.00 per semester hour is charged for students who register after classwork begins. **This fee is not refundable.**

Change of Class Schedule: Students will be charged \$1.00 for each class change requested after the second day classwork begins. (Refer to College calendar.)

*Must have 55 hrs.
\$3 per hr. - Junior College
\$6 per hr. - Senior College*

regardless of level

Commencement: Candidates for the Associate or Baccalaureate Degrees will be charged a \$10.00 commencement fee. This covers the cost of the diploma, rental of cap and gown, and other commencement activities. The fee is not subject to refund.

Transcripts: Each student is entitled to two official transcripts from the Junior College Division and/or from the Senior College Division without charge. There is a charge of \$1.00 for each additional copy. Payment must accompany the request for each transcript.

Applied Music: For one 30-minute lesson per week in applied music, the usual fee is \$32.00 per semester. The fee is paid to the instructor.

Textbook Rental: Students enrolled in eight or more credit hours during any semester pay a \$15.00 textbook rental fee and a \$15.00 deposit. Students enrolled in less than eight credit hours during any semester pay a \$3.00 rental and \$3.00 deposit for each course in which they are enrolled. The deposit is refunded when the student has returned all books, materials, and equipment in satisfactory condition. (Books may be purchased for full retail price.)

Laboratory Breakage and Materials: Occasionally a fee is charged for classroom materials, such as, subscription to a periodical. There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects. (Example: automotive parts.)

REFUND POLICY:

Students who drop out of College before the fifth week of the semester or summer session are entitled to a partial return of refundable fees. The refund must be claimed during the term for which the refund applies. The refund will be computed as of the date the Registrar receives written notice from the student of his intention to drop classes.

The refund schedule is as follows:

Within the first and second weeks	80 per cent refund
Within the third and fourth weeks	50 per cent refund
After the fourth week	No refund

SUMMER SESSION

Rules and regulations which govern admissions to the first and second semesters during the regular school year shall also apply to the Summer Session.

Fees for the eight week Summer Session are as follows:

	Residents of Missouri	Non-Residents
Incidental Fee (per credit hour)	\$ 8.00	\$20.00
College Union	5.00	5.00
*Textbook Rental (per course)	6.00	6.00
*The rental charge is \$3.00 per course. Three dollars per course is refundable.		

EVENING SCHOOL

Students enrolled in the Evening School for regular college credit courses, applicable toward an Associate or Baccalaureate Degree, will be subject to all rules and regulations of the Day School. Fees and other charges will be based on the Day School schedule with one exception, the Activity Fee. Since the Evening School students will not be required to pay it, they cannot expect the privileges of those who have paid Activity Fees.

Special fees will be announced in the Evening School Bulletin for classes not applicable to an Associate or Baccalaureate Degree.

ADMISSIONS

ADMISSION REQUIREMENTS TO THE JUNIOR COLLEGE DIVISION

GENERAL INFORMATION

The College regularly admits without examination graduates of fully accredited high schools of Missouri. A student entering from out of state must rank in the upper two-thirds of his high school graduating class. All students are expected to be of good moral character.

Former Missouri Southern College students who wish to re-enter must submit all credentials required of a new student applying for admission.

CREDENTIALS

Students applying for admission to the Junior College are required to provide the following credentials:

1. High School Transcript. An official transcript or transcripts of high school credits showing that he has met requirements for graduation.
2. College Transcripts. Official transcripts and statements of honorable dismissal from each institution attended after high school graduation.
3. Application. An application for admission which must be filed with the Director of Admissions before the deadline as specified in the College calendar.
4. Application Fee. A fee of \$5.00 with the application of admission.
5. Physical Examination. A certificate of health filled out and signed by both the applicant and his doctor.
6. Placement Tests. Scores from the Missouri College Placement Tests (SCAT and MCET). (These tests are administered by colleges throughout the state of Missouri both during the spring and summer of each year. In unusual circumstances the tests may be administered by appointment at Missouri Southern College.)
7. Applicants For Admission to Nursing Program. Students who plan to enroll in the nursing program, in addition to the above credentials, must arrange an interview with the Director of Nursing.
8. Veterans who plan to attend under the G. I. Bill of Rights or veterans' orphans under the War Orphans Act must present a certificate of eligibility at the time of registration.

All credentials must be sent directly to the Director of Admissions, Missouri Southern College, Joplin, Missouri 64801. Prompt attention to these details will avoid delay in admission.

TYPES OF ADMISSIONS

I. Regular Student

A. Evidence of graduation from an accredited high school.

1. As a public supported institution, Missouri Southern College accepts all graduates of Missouri high schools. Applicants with previous college work will not be considered under this provision.
2. Graduates of accredited high schools outside of the State of Missouri are eligible for admission as regular students if previous academic records meet the admission requirements.

B. By examination or equivalency certificate

1. Arrangements for admission should be made with the Director of Admissions.
2. Students entering from other institutions must comply with the same scholarship regulations as are applied to all students enrolled at Missouri Southern College.

II. Special Student

Persons over 21 years of age who are unable to meet requirements as regular students and desire to take special studies may be admitted on special status upon presentation of satisfactory evidence that they are qualified to undertake college studies.

STEPS IN JUNIOR COLLEGE ADMISSION AND ENROLLMENT

Step No. 1 **Application:**

The student must submit an application for admission. This form may be obtained from the Office of Admissions. Deadlines are specified in the College calendar.)

Step No. 2 **Application Fee:**

Payment of Application
A fee of \$5.00 must accompany the application for admission. (The fee is not refundable after the last day for filing application for admission, but will be applied to registration fees at the time of registration.)

Step No. 3 **Health Examination:**

This form is to be filled out and signed by both the student and his doctor.

Step No. 4 **High School Transcripts:**

A complete record of all high school work is required. Transcripts must be mailed from the high school directly to the Office of Admissions.

Step No. 5 **College Transcripts:**

Transcripts from all colleges attended must be mailed from the respective colleges directly to the Office of Admissions of Missouri Southern College.

Step No. 6. Missouri College Placement Tests:

All regularly enrolled students are required to take the Missouri College Placement Tests and file the results of these tests with the Office of Admissions. (Students may contact the Director of Guidance and Counseling for dates when tests will be administered.)

Sep No. 7 Enrollment Permit:

The Office of Admissions will issue the applicant an enrollment permit. This permit will give the date, time, and place that the student should report for enrollment and orientation.

Step No. 8. Enrollment Procedure:

1. Attend the College orientation session.
2. Develop a schedule of classes with an advisor who will be assigned to each student.
3. Follow the steps in enrollment which will be outlined in a special bulletin.

ADMISSION REQUIREMENTS TO THE SENIOR COLLEGE

GENERAL INFORMATION

Students transferring from other colleges with a minimum of 60 semester hours of acceptable college credit and a cumulative grade point average of C (2.00) or better are eligible for admission to the Senior College Division. All students are expected to be of good moral character. Missouri Southern College transfer students from the Junior College Division will be required to file an application for admission to the Senior College Division and submit credentials required of all transfer students. (Exception: Continuing students will not need to submit a certificate of health if one is already on file.)

CREDENTIALS

Students applying for admission to the Senior College Division are required to provide the following credentials:

1. High School Transcript. An official transcript or transcripts of high school credits showing that he has met requirements for graduation.
2. College Transcripts. Official transcripts and statements of honorable dismissal from each institution attended after high school graduation.
3. Application. An application for admission which must be filed with the Director of Admissions before the deadline as specified in the College calendar.
4. Application Fee. A fee of \$5.00 with the application for admission.

5. Physical Examination. A certificate of health filled out and signed by both the applicant and his doctor.
6. Placement Tests. Test scores taken at other colleges attended. (An applicant may be required to take Missouri Southern College placement tests.)
7. Veterans who plan to attend under the G.I. Bill of Rights or veterans' orphans under the War Orphans Act must present a certificate of eligibility at the time of registration.

All credentials must be sent directly to the Director of Admissions, Missouri Southern College. Prompt attention to these details will avoid delay in admission.

POLICIES RELATING TO TRANSFER STUDENTS

1. Students who are ineligible to return to the last institution will not be admitted to the Senior College Division of Missouri Southern College.
2. Students who are on academic probation must first petition by letter to the Committee on Academic Standards.
3. The maximum credit which a student may present from a junior college toward advanced standing is 64 semester hours. Exceptions are made if the student must meet requirements of a prescribed curriculum.
4. Senior college courses in which a student has received a grade lower than C will not be accepted for credit at Missouri Southern College.

ENROLLMENT PERMIT

After an applicant has filed all required credentials for admission, he will be issued an enrollment permit. This permit will give the date, time, and place the student should report for enrollment and orientation.

ENROLLMENT PROCEDURE

June 12, 1966

1. Attend the College orientation session.
2. Develop a schedule of classes with an advisor who will be assigned to each student.
3. Follow the steps in enrollment which will be outlined in a special bulletin.

STUDENT PERSONNEL SERVICES

The maximum intellectual growth and personal development of the college student is a combination of academic study and participation in out-of-class activities. Therefore the educational program of Missouri Southern College includes all student-college relations in addition to formal instruction.

The student personnel services are designed to supplement, compliment, and implement the academic program of the College.

ADMISSIONS — ENROLLMENT — ORIENTATION

Missouri Southern College begins early in the academic year to interest prospective students. Through visits to area high schools that sponsor "Know Your College" programs, College visitations teams discuss phases of admission and attendance, and distribute forms, brochures, and college catalogs. After admission to the College the student is assigned to orientation sessions designed to acquaint him with school policies, student organizations, and other activities.

TESTING

Placement tests required of all new students entering Missouri Southern College are the same as those required for enrollment in many other Missouri colleges and universities, including the University of Missouri.

These tests are used for placement and are as follows:

- (1) School and College Ability Test (S C A T), Form A
- (2) The Missouri College English Test (M C E T), Form B
- (3) The Missouri Mathematics Placement Test (M M P T), Form C-1

Students have several opportunities to take these tests as there are several testing centers throughout the state. High school seniors and others may take the tests during April, May, or during the summer preceding enrollment. Students taking these tests at some other center besides M S C will need to take the responsibility of having their test results sent to M S C by writing the University of Missouri which serves as a depository for all test results. **STUDENTS MUST HAVE THESE TEST RESULTS ON FILE AT M S C IN ORDER TO ENROLL.** Consult the M S C catalog or the local school for dates of administration of these tests.

COUNSELING SERVICES

Above everything else, Missouri Southern College is interested in the student as an individual. To this end, each student receives attention from one of the professionally trained members of the counseling and advisory staff. The instructor of each course is also available for private appointments to discuss any matters relating to a particular course which the student may be pursuing. Parents are also welcome to contact school officials about any phase of school work of special concern.

Students with personal problems may seek consultation by appointment with the College psychologist.

STUDENT HEALTH

The health services are not intended to replace the student's family physician or to assume the family's responsibility for the health of the student. Rather, it is to provide on the campus conditions to the maintenance of the student's health, and, in emergencies, to make him safe until his parents or other persons responsible can be advised.

A school nurse is on duty from 1:00 to 4:00 in the afternoon for consultation and first aid services. In cases where continuing care or treatment is necessary while the student is away from home, the school nurse will cooperate with the student's family physician.

Group health insurance is available to students at a reasonable cost.

SOCIAL STANDARDS

A student attending Missouri Southern College is expected to maintain a high standard of moral conduct. Forfeiture of the privilege to attend may result from unsatisfactory conduct. Students are expected to demonstrate maturity in their judgment.

Appropriate dress is expected on the campus during the regular school day.

Missouri Southern College does not permit the use of alcoholic beverages on campus. Any violation to this rule is subject to disciplinary action.

Smoking is prohibited in the library and in classrooms.

HOUSING

Although Missouri Southern College has no dormitories or residence halls, a list of desirable places to live in private homes, hotels, the Y.M.-C.A. and Y.W.C.A. is available in the office of the Dean of Students. Sleeping rooms vary in rental from four to six dollars per week. Rooms with kitchen privileges and small apartments are also available to students at reasonable cost.

OFF-CAMPUS EMPLOYMENT

Students who must earn part of their college expenses while attending school will find many opportunities in Joplin and neighboring communities for part-time employment. The office of the Dean of Students maintains a current file of available employment. Announcements of part-time jobs are posted regularly on the bulletin board. Students desiring part-time employment should file an application with the Dean of Students.

COLLEGE STUDENT EMPLOYMENT

A work program similar to the Work-Study Program is one financed completely by the College. Each division in the College as well as certain service areas has a budget for student help. The type of work includes clerical, laboratory, custodial, and others. Inquiries should be made either to the Dean of Students or Division Chairmen.

FOOD SERVICES

Well balanced meals are served in the College cafeteria at reasonable prices. The cafeteria will seat approximately 400 students at one time.

VETERANS

The college is approved by the Veterans Administration to offer programs for veterans eligible under the provisions of Public Laws No. 894 and No. 550, and for those attending under the War-Orphans Act; Public Law 634.

SELECTIVE SERVICE

College Student Certificates (Form 109) are completed by all male students at time of registration, except those who have completed their military service obligation. These forms will be available to Draft Boards so the students currently enrolled may request educational deferment.

FOREIGN STUDENTS

The College is not staffed to give special attention to foreign students who apply for admission. Only those students will be considered who give evidence of proficiency in the use of the English language.

FINANCIAL AIDS

Scholarships

General Information: Applications for scholarships are made to the Committee on Aids and Awards, Missouri Southern College, unless otherwise specified.

Dean H. E. Blaine: On April 2, 1957, the Board of Education of the School District of Joplin established two Scholarships in memory of Mr. H. E. Blaine, the first Dean of the Joplin Junior College. These scholarships, based on academic achievement, are awarded by Missouri Southern College to the highest-ranking boy and girl at the end of their freshman year and are to be used the following year in Missouri Southern College.

Missouri Southern College Academic Scholarships: The College awards scholarships to the first or second ranking student in his high school graduating class within the Junior College District. In addition, an award is made to one student in the upper ten per cent of his graduating class for each fifty in the class of an area high school. The scholarship is presented through the high school principal in the Spring at award or graduation ceremonies. The first or second ranking student pays no regular fees. The students ranking in the upper ten per cent do not pay incidental fees.

Alumni Association: The College Alumni Association offers a scholarship open to any student nominated by an alumnus. Preference, however, will be given to sons and daughters of alumni.

Nominations for the Alumni Scholarship must be mailed to the Alumni Scholarship Committee, Missouri Southern College, before April 15.

Bank of Carthage: The Bank of Carthage, Carthage, Missouri, offers a scholarship annually to an outstanding freshman student to be used during the sophomore year. Applications must be received by April 15, of the student's freshman year and should be addressed to the Missouri Southern College Committee on Aids and Awards.

Russell Belden Memorial: Scholarships are awarded from this fund to students above freshman level who are pursuing degree programs at the college. The basis of selection are need, scholarship, and character.

Circle K Club: The Circle K Club of Missouri Southern College offers a sophomore scholarship to a male student completing his freshman year at the college with a cumulative grade-point average of 2.3. The scholarship is based on need, leadership in the college, and scholarship. Applications must be received by April 15 of the student's freshman year and should be addressed to Missouri Southern College Committee on Aids and Awards.

Ada Coffey: The Ada Coffey Scholarship was established in 1963 by a former student. Miss Coffey was an instructor in English and literature at the College from September 1937 to August 1963. The recipient of the scholarship must pursue an Associate in Arts degree from Missouri Southern College.

William Hugh Sisk Memorial: This scholarship is awarded to a student admitted to the nursing program. The student must have ranked in the upper half of her high school graduating class and must show evidence of financial need.

40 and 8 Nursing Scholarship: The 40 and 8 scholarship is awarded to a student admitted to the nursing curriculum who ranked in the upper half of her high school graduating class and has financial need.

Student National Education Association: An award is made each year to a student preparing to become a teacher and who has demonstrated leadership ability while a member of a high school Future Teachers Association or the College SNEA.

Drummond Memorial Scholarship: This scholarship has been established to the memory of Edna Drummond, a teacher of Biology at Missouri Southern College. It is awarded to a high school graduate who is pursuing studies in the Biological Sciences at Missouri Southern College.

Performing Aids and Workshops: Awards are made to individuals who have demonstrated success or high potential in athletics, music, or dramatics. These individuals must show satisfactory progress in these college performance areas in order to continue the aid.

Workshops are awarded to a small number of students who work in leadership positions in the college publications.

Applications for performing aids or workshops should be made to the director or sponsor of the particular activity.

STUDENT LOANS

Irwin Memorial Fund: This fund was established in memory of Arnold E. Irwin, instructor of political science at Joplin Junior College from 1946 to 1959. The Exchange Club of Joplin created a loan fund for deserving students of Missouri Southern College. The fund is available to students for emergency short-term loans. No security is required of the borrower, except that a note will be drawn up at the time the loan is made, for interest to begin at a time set by the adviser and the student. No interest will be charged before the time set in the adviser-student conference. The fund is administered by the Finance Officer and an advisory committee of the College.

B'Nai B'Rith Fund: A fund was established in 1966 in honor of the memory of B'Nai B'Rith member, David Pearl, to provide short-term loans to needy students. A note is prepared when the loan is made and a small interest charge may be required after a specified period. The Finance Officer and the Committee on Aids and Awards administer the program.

National Defense Student Loan Program: The purpose of the Program is to provide student loan funds for making long-time low-interest loans to students to pursue their college education.

Institutional Capital Contributions for the National Defense Student Loan Program have been obtained by donations from former students, funds of inactive student organizations and, a donation on December 1, 1960, from the Kappa Upsilon Pi Study Club of Joplin.

To be eligible for a loan, a student must be in need of the amount of the loan, pursue a course of study at the institution, be capable of maintaining good standing in the courses, and have been accepted for enrollment as a student, or if already attending an institution, be in good standing and in attendance. Requests for application blanks may be addressed to the Director of the NDSL Program.

United Student Aid Program: This loan program is sometimes referred to as the "Guarantee Loan Program" and provides low-cost loans for college students. The loans are made by certain local banks and are endorsed by the college. Repayments and the three per cent interest charge begin after the students leave college.

WORK-STUDY PROGRAMS

Missouri Southern College is participating in Title I-C of the Economic Opportunity Act of 1964. This section of the act is commonly referred to as the College Work-Study Program and is designed to provide jobs for college students whereby they may earn a significant portion of their current expenses while attending College. In order for students to be eligible to participate in this program, they must show that the financial aid received is necessary for them to attend college.

Further information pertaining to this program may be obtained by contacting the Director of the Work-Study Program at the College.

STUDENT ACTIVITIES

Opportunities for participating in a wide variety of out-of-class activities is provided at Missouri Southern College. Students are encouraged to investigate the wide choice of activities and are invited to participate in one or more of these aspects of the College program.

GOVERNING BODIES

STUDENT SENATE . . . The responsibility for student government rests not only with the student officers and student boards and committees but also with each member of the student body. The growth and development of Missouri Southern College Student Government will be proportionate to the participation by the students.

The Student Senate serves as the governing body for students and acts as an intermediary between the faculty and student body. Members of the Student Senate gain experience in the functions of a student government and strive to promote the objectives of the Student Body Constitution. Duties of the Senate include the allocation of Student Activity funds to the various college organizations, the publication of a student directory and the student handbook, and the promotion of student activities, such as dances, parades, and assemblies.

The membership of the Student Senate consists of the Student Body Executive Officers, the Class Officers from the freshman and sophomore classes and a number of senators representing each class. The student body executive officers for the summer cabinet for the following year are elected late each spring. The class officers and student senators are elected early each fall. Interested students petition and campaign for office. The number of senators each class may have in the Student Senate is proportionate to the number of students in each class.

STUDENT CABINET . . . The Student Cabinet organized each spring is composed of a representative from each authorized student organization together with the student senate officers. This group acts in an advisory capacity to the student body president during the summer and the next regular school year. In addition, the student cabinet functions as a service committee from the end of the spring term until the time that the senate is fully organized in the following fall. During the summer months the Cabinet assumes the power and duties of the student senate; thus, it is often referred to as "The Summer Cabinet." At the beginning of each new school year, the Cabinet helps with the orientation program for new students; and before the Cabinet retires to its advisory role, it is responsible for conducting the elections of class officers and of student senators.

STUDENT ORGANIZATION

The College encourages student organizations which provide for the professional, social, academic, divisional, religious, political, or service interest of the students. New organizations may be established when approved by the Student Government and the College administration.

PHI THETA KAPPA (ETA CHI CHAPTER) is a national junior college scholastic fraternity to promote scholarship, the development of character, and the cultivation of fellowship among students of both sexes in the junior colleges of the United States.

THE STUDENT NATIONAL EDUCATION ASSOCIATION (ADA COFFEY CHAPTER) is the professional association for college students who are preparing to teach. Its members are members of duly chartered local chapters. Local chapters and state student education associations are integral parts of the Student NEA. A member of the Student NEA is a student member of the Missouri State Teachers Association and the National Education Association with all the rights, privileges, and responsibilities of associate membership in these professional organizations. Members receive the **NEA Journal** and **School and Community**. The Student NEA calendar includes many and varied academic and social activities.

THE COLLEGE PLAYERS promotes interest in dramatics. The members present several major productions and contribute to college assemblies and other school functions. Membership includes students interested in any field of dramatic work.

The organization provides additional opportunities for players to perform outside the college in programs requested by civic, religious, business, and professional organizations. The Players take several field trips each year to study production methods and performances in neighboring colleges and universities.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION, organized in Joplin in 1938, is of service to the women students of the College. It offers every woman of the College an opportunity for development and training in leadership, religion, and social service. The group is affiliated with the National Student Christian Association and the National Student YWCA. Each year it contributes to and initiates the local World University Service drive to aid students in other countries.

Delegates may attend the state fall and spring conferences of the YWCA and the regional conference at Estes Park, Colorado, during the summer.

THE ENGINEERS CLUB fosters a professional spirit by promoting the interests and activities of its members. To accomplish this purpose the Club sponsors technical projects, professional speakers, field trips to industrial plants, and other activities. To be eligible for membership, a student must be enrolled in engineering, physical science, or related fields.

THE MATH CLUB increases the knowledge of students in areas of mathematics not covered in regular courses and encourages the student in individual study.

THE MODERN LANGUAGE CLUB offers the student the opportunity to become better acquainted with the people and customs of other countries. The club has a yearly project in which it renders service either here or abroad.

THE COLLEGIATE COUNCIL FOR THE UNITED NATIONS is an affiliate member of the national organization, an accredited Non-Government Organization with official NGO status at the United Nations and the United States Mission to the UN. By studying the United Nations, students reach conclusions about United States policies. CCUN activities include sponsoring a student delegation to the Midwest Model United Nations each spring.

THE CIRCLE K CLUB was organized in 1955 by the Joplin Kiwanis club to serve the College and the community. Male students who are willing to serve others are accepted members.

THE YOUNG DEMOCRATS CLUB encourages student interest and responsibility in politics. Its programs inform and give practical experience in party politics.

THE YOUNG REPUBLICAN CLUB advocates an understanding of party politics as well as an awareness of the responsibilities of the citizen to his country.

THE CROSSROADS (THE COLLEGE YEARBOOK) is produced by a student staff with faculty sponsors. The annual Crossroad's Ball is climaxed by the crowning of the Crossroads Queen. Students who work on the yearbook staff receive valuable experience in school publications.

THE CHART staff publishes 18 issues of the College newspaper. Throughout the year the editorial division uses the work of many reporters, feature writers, cartoonists, and typists. The business staff offers experience in advertising, salesmanship, and secretarial practices. Students interested in an editorial position should register for the Survey of Journalism course. Those wishing to freelance should attend weekly staff meetings.

STUDENT INTERESTS

Music . . . Participation is offered to students by five musical organizations. Choir, and Vocal Ensemble are open to all students with consent of the director. Auditions for the Choir are held at the beginning of each semester. Its membership is limited to 60 participants. Activities include concerts, performances for civic clubs and area schools, and tours. The Vocal Ensemble is a small select group that performs for civic programs and at special recitals.

The Concert Band, Stage Band, and Symphony Orchestra are offered to all students who have the instructor's consent. Concert Band performances include two major concerts each year. The stage Band is a limited membership group with activities that include at least two formal appearances each year, participation in Jazz Festivals, performances at assemblies, and for civic groups. The Symphony Orchestra is composed of outstanding college instrumentalists and area adult musicians. The group will give five concerts each school year, performing standard orchestral literature.

Drama . . . Students interested in dramatics have a variety of activities open to them. The key to full participation is the College Players.

Athletics . . . Missouri Southern College is a member of the National Junior College Athletic Association and participates in the following intercollegiate activities: basketball, football, track, golf, and tennis.

To be eligible for participation, students must meet the scholastic requirements of the NJCAA.

ACADEMIC POLICIES AND REGULATIONS

NUMBERING COURSES

Credit will not be allowed in any course which substantially duplicates any course already completed. Courses will be numbered as follows:

Do not apply to baccalaureate degree programs	000-100
Freshman courses	101-199
Sophomore courses	200-299
Junior courses	300-399
Senior courses	400-499

GRADES AND GRADE POINTS

In order that academic achievement may be recorded and made available for reference, when needed, the following system of recording grades will be used:

- A—Excellent—4 grade points per credit hour
- B—Superior—3 grade points per credit hour
- C—Average—2 grade points per credit hour
- D—Unsatisfactory—1 grade point per credit hour
- F—Failing—0 grade points per credit hour
- WP—Withdrawal Passing—0 grade points per credit hour
- WF—Withdrawal Failing—0 grade points per credit hour
- I—Incomplete—0 grade points per credit hour

No credits are earned in courses in which grades F, WP, WF, or I are received. Grades of WP are not used in computing grade point average. Grades of I must be made up within two weeks after the close of a semester or summer session or will be automatically converted to F.

A grade point average (GPA) at the end of any semester is the total number of grade points earned divided by the total number of hours attempted.

MINIMUM STANDARDS OF PROGRESS

A student's cumulative grade point average (GPA) is used to evaluate his progress. If a student's grade point average falls below the minimum standards of progress, his work is considered unsatisfactory.

Students are considered to be making minimum progress toward a degree if they have a cumulative grade point average as follows:

After attempting 12-17 hours, inclusive	1.50 (GPA)
After attempting 18-29 hours, inclusive	1.60 (GPA)
After attempting 30-44 hours, inclusive	1.75 (GPA)

Any student with 45 semester hours or more whose cumulative record at the end of a semester or summer session averages less than 2.00 (GPA) is considered making unsatisfactory progress.

ACADEMIC WARNING

A student who is making unsatisfactory progress will be issued an academic warning and placed on probation for one semester. During the semester on probation, he must raise his grade point average to the level prescribed in the minimum standards of progress.

If a student on probation achieves a 2.00 (GPA) on a full-time load during the probationary period but does not raise his cumulative average to the required standing, he will be granted permission to continue one or more semesters on probation. Conditions which are cause for two successive probations are sufficient reason for dismissal from College.

SUSPENSION

Students on academic probation who fail to earn a grade point average of 2.00 or better for the semester in attendance while on academic probation will be suspended from college for one semester. The student may petition the Committee on Academic Standards for re-admission after one semester has elapsed.

Re-admissions will be considered only in cases where the student can present evidence to the Committee which would indicate positive change in circumstances suggesting a high probability of future successful performance.

A student whose grade point average is less than 1.0 will be automatically suspended from college, except a student who is in the first semester of college may petition the Committee on Academic Standards immediately for reinstatement.

The College reserves the right to suspend any student whose performance gives evidence that he cannot continue with profit to himself and credit to the institution.

REINSTATEMENT

Any student suspended from college for poor scholarship may petition for reinstatement to the Committee on Academic Standards. If the Committee approves the petition, the student will be invited to appear in person and present his case for reinstatement. Each petition will be considered on its own merit. Reinstatement is not automatic.

REPETITION OF COURSES

A student may repeat a course in which he has received a mark below C; however, the original grade will remain on the record and both grades will be counted in arriving at the grade point average. Any course may be repeated only once. This policy applies to students entering Missouri Southern College for the first time in September, 1967.

STUDENT LOAD

Normal registration for any one semester is 15 semester hours, exclusive of physical education activity courses, band, orchestra and chorus. Maximum registration without special permission of a Division Chairman

or the Dean of the College, exclusive of physical education activity courses, band, orchestra, and chorus is 16 semester hours. Only students who have given evidence of superior academic ability will be granted permission to increase their course load beyond the maximum. Exceptions are made when a student must meet requirements of a prescribed curriculum.

CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors, Seniors, special, full-time, and part-time.

Freshman — From 0 semester hours through 28

Sophomore — From 29 semester hours through ~~60~~⁶⁵

Junior — From ~~60~~ semester hours through 89

Senior — More than 89 semester hours and not graduated.

Special Students: Students enrolled for no credit, and post graduates will be classified as special students.

Full-time Student: After registration, a student enrolled for 12 semester hours or more will be considered a full-time student.

Part-time Student: After registration, a student who is enrolled in less than 12 semester hours will be considered a part-time student.

ATTENDANCE

Any absence for whatever cause is a handicap to both the instructor and the student. Registration presupposes regular attendance at recitations, lectures, and laboratory session. In general, the opportunity for making up classwork missed is to be worked out between the instructor and the student upon the student's initiative. When a student has been absent two class meetings more than the credit hours of the course, he will be reported as dropped. He may request reinstatement through the Dean of Students.

WITHDRAWAL FROM COURSES

To withdraw from a course, a student must fill out a change of registration card obtained from the Registrar's Office, have his advisor or division chairman approve it, and return the card to the Registrar's Office.

1. If a student withdraws officially from a course during the first two weeks of a semester, no entry will be made of the course on the permanent record. If withdrawal is made after the second week and before the end of the fourth week, a mark of "W" is entered in the record.
2. Withdrawal from individual courses after the fourth week of a semester is subject to the following conditions:

- (a) If a student is doing passing work in a course, he may withdraw upon approval of his advisor or division chairman with a grade of "WF".
- (b) A student doing failing work in a course may withdraw upon approval of his advisor or division chairman. A grade of "WF" will be assigned each class withdrawn while doing failing work. A "WF" counts the same as an "F" in computing grade point averages.
- (c) If a student discontinues a class during a semester without officially withdrawing, he will receive a grade of "WF" in the class discontinued.
- (d) When a student is dropped from a class because of excessive absences, he will receive a grade of "WF" in the class from which he is dropped.

WITHDRAW FROM COLLEGE

Except at the end of a semester or regular school session, any student who withdraws from Missouri Southern College must obtain a "Withdrawal From School Permit" from the Registrar's Office. When this form is completely processed, the student will report to the Registrar's Office for final withdrawal. If all records are clear, the student is honorably dropped from the College and is eligible to return, subject to minimum standards of progress regulations.

A student who leaves the College without completing the "Withdrawal From School Permit," except at the end of a semester or a regular school session, will not be eligible to re-enter the following semester.

AUDITORS

With the consent of the chairman of the division and the instructor concerned, a student may be admitted to a course as an auditor. Auditors must be registered and pay fees as a regular or special student. They receive no college credit. No record will be made on the student's permanent record of the course audit.

ADVANCED PLACEMENT

A student whose educational experiences appear to have given him proficiency in a course may request permission to take an advanced placement examination. The examination will be comprehensive, designed to cover the subject fully. The examinations must be taken at least one month prior to registration. Normally the examinations given are not for credit; however, credit may be allowed in special circumstances. Request to take an advanced placement examination must be in writing addressed to the chairman of the division in which the examination is given.

CORRESPONDENCE AND EXTENSION

A student may not offer by correspondence or extension more than one-fourth of the total number of semester hours required for a degree or certificate.

MINIMUM RESIDENT CREDIT FOR DEGREES

A student must earn in residence at this College during his last semester:

1. Junior College Division — 15 of his final 20 semester hours
2. Senior College Division — 30 of his final 36 semester hours

GRADUATION

Missouri Southern College grants the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Associate of Arts, and Associate of Science degrees. In addition, the College awards certificates of proficiency.

For a student to be admitted to candidacy for any degree or award, his scholastic record must show that he has satisfied the entrance requirements and that he can fulfill the requirements for graduation upon the completion of the courses for which he has registered. He must file application for candidacy with the Registrar no later than six weeks after his registration in the last semester. A student who plans to complete graduation requirements at the close of a Summer Session must file for candidacy at the time of registration for the Summer Session. A commencement fee of \$10.00 must be paid at the time of application for candidacy.

HONORS AT GRADUATION

To be eligible for graduation with honors, a student must have earned a cumulative grade average of 3.50 and must have completed at Missouri Southern College at least half of the number of hours required for graduation. Those with a cumulative grade average of 3.50 to 3.65 graduate with Third Honors; 3.65 to 3.75, Second Honors; and 3.75 and above, First Honors.

CATALOG FOR CHECKING DEGREE REQUIREMENTS

Students are subject to current administrative and general policies and regulations. The 1967-1968 catalog becomes effective June 1, 1967.

A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the date of his first registration in the College, so long as it is not more than five years prior to the date the degree is conferred. The candidate must have been in residence during the year of the catalog selected.

STATE LEGISLATION REQUIREMENT

Sections 10373, 10374, 10374a, 10374b, 10374c (S. C. S. for S. B. 4) of the Laws of Missouri, 1947 (64th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or, (2) by certification of the completion of such requirements in another collegiate institution.

Students in the following categories will have fulfilled the requirement of this law:

1. All students who have completed the general education curriculum requirements in Area B.
2. Transfer students who have completed an American history course covering and including the constitutional period and one of the following:

State Government

Missouri History and Government, or pass a special examination on the new Missouri Constitution .

JUNIOR COLLEGE DIVISION

ASSOCIATE OF ARTS DEGREE PROGRAMS

GRADUATION REQUIREMENTS:

Missouri Southern College confers the title of Associate of Arts upon those students who (1) complete the General Education requirements for the degree and (2) accumulate a total of 62 semester hours with a cumulative grade point average of 2.0. Students who wish to pursue a pre-professional curriculum with the intention of transferring to another college at the end of the sophomore year should follow programs outlined in the section under Junior College Curricula. Students working toward a Baccalaureate Degree at Missouri Southern College should follow requirements of the specific degree. All students' programs must be approved by an appointed advisor.

GENERAL EDUCATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

Area A. Basic Skills:	Credit Hours
English 102 and 103, or English 104	6
Speech 101 or 201	3
Mathematics 103 or 113 or an equivalent course in mathematics	3
	<hr/> 12
Area B. Social and Behavioral Science:	
History 104	5
One of the following:	
Political Science 120 or 232 or	
History 100 or 200 or 204 or	
Geography 220 or Psychology 101	
Or Sociology 140 or Economics 202	5
	<hr/> 10
Area C. Humanities:	
English 106 or 107 or 207 or 208	3
One of the following:	
Music 150, Art 102, Drama 221	
Philosophy 220	3
	<hr/> 6
Area D. Natural Science:	
Biological or Physical Science	5

Area E. Health and Physical Education:	
Physical Education 101 and 102 or	
Health Education 162	2
	<hr/>
TOTAL:	35

ASSOCIATE OF SCIENCE DEGREE PROGRAMS

The title of Associate of Science will be conferred upon those students completing a minimum of 62 hours with a cumulative grade point average of 2.0 in one of the semi-professional or vocational-technical curricula listed below:

1. Automotive Technology
2. Data Processing
3. Nursing
4. Vocational General Business
 - A. Accounting
 - B. Business Administration
 - C. Computer Programing and Data Processing
 - D. Electronic Data Processing Coordinating
 - E. Secretarial Science

This degree is designed to prepare an individual for employment and is not recommended for students desiring to complete the requirements for a baccalaureate degree.

Students desiring this degree must complete a specific curriculum and must fulfill the following General Education requirements:

GENERAL EDUCATION REQUIREMENTS FOR ASSOCIATE OF SCIENCE DEGREE

Area A. Basic Skills:	
Six semester hours selected from the following:	
English 102, 103, 104, or	
one math elective	6
Area B. Social and Behavioral Science	
Five semester hours selected from the following:	
(one course in U. S. History or U. S. Government	
is required) History, Government, Sociology,	
or Psychology	5
Area C. Humanities:	
Any course in speech, drama, literature,	
philosophy, or an appreciation course in art	
or music	3
Area D. Biological or Physical Science	5
Area E. Physical Education:	
Physical Education 101 and 102 or	
Health Education 162	2
	<hr/>
	21

SEMI-PROFESSIONAL AND TECHNICAL CURRICULA

The Semi-Professional and Technical Curricula are designed for students who have no desire, at the present time, to continue formal collegiate instruction leading to a Baccalaureate Degree. These students seek specialized instruction which will prepare them for employment in the shortest possible time. Special skills and training are given high priority in these curricula.

Students enrolling in these curricula should understand that courses in the specialized areas may not be applicable toward the Baccalaureate Degree.

DIVISION OF SEMI-PROFESSIONAL AND TECHNICAL EDUCATION

Chairman—James K. Maupin

Business: Division of Business and Economics faculty

Data Processing: (Position to be filled)

Nursing: Bessie Vediz, Juanita Hulen, Jenean Sears

Automotive Technology: Dwight Mason (Second staff member to be added)

Curricula in business, data processing, nursing, and automotive technology are offered in the Division of Semi-Professional and Technical Education to provide intensive training required in these specialized fields. Upon satisfactory completion of the required courses in a field of specialized study, the student will be granted a Certificate of Completion or the Associate of Science Degree.

These programs, which have been developed with the advice of representatives of business, governmental agencies, and the professions, provide the student with the educational background to enter gainful employment.

GENERAL BUSINESS

DEGREE: Associate of Science

The General Business curriculum has been designed to prepare students for supervisory and managerial positions, or to operate a private business. It provides the fundamental knowledge of marketing and management required for effective business operations. Practical techniques, skills of communication, and good human relations are developed in a realistic manner.

In addition to the General Education requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
101 and 102	Accounting	6
101	Introduction to Business	3
201 and 202	Principles of Economics	6
301 and 302	Business Law	6
350	Business Organization and Management	3
320	Advertising	3
	*Electives	14

*Electives should be selected from the business area of Personnel Management, Principles of Marketing, Retailing, Salesmanship, Business Communications, or in Psychology.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	English 103	3
Accounting 101	3	Accounting 102	3
Business Mathematics 105	3	Speech Techniques 101	3
(or Mathematics 022 or 133),		Principles of Economics 201	3
Introduction to Business 101	3	Elective	3
General Psychology 101	3	Physical Education 102	1
Physical Education 101	1		
	16		16

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
U.S. History 104	5	Fund. of Physical Science 125	5
Business Law 301	3	or General Biology 101	
Principles of Marketing 317	3	Business Law 302	3
Principles of Economics 202	3	Advertising 320	3
Business Organization and		Business Communications 120	3
Management 350	3	Elective	2-3
	17		16 or 17

ACCOUNTING

DEGREE: Associate of Science

The Accounting curriculum has been developed by Missouri Southern College to prepare students to enter public accounting firms, industry, banking, and government service as accounting assistants or accounting clerks.

In addition to the General Education requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
101, 102, 201 202 and 401	Accounting	15
102 or 201	Typewriting	3
101	Introduction to Business	3
350	Business Organization and Management	3
110	Office Machines	3
201 and 202	Principles of Economics	6
301	Business Law	3
	*Electives	5

*Electives should be selected in the areas of Business Law, Auditing, Statistics, or Mathematics.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	English 103	3
Accounting 101	3	Accounting 102	3
Business Mathematics 105	3	Typewriting 102 or	3
(or Mathematics 103)		Business Elective	
Typewriting 101 or 201	3	Speech Techniques 101	3
Introduction to Business 101	3	Business Organization and	
Physical Education 101	1	Management 350	3
		Physical Education 102	1
—	16	—	16

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Accounting 201	3	Cost Accounting 202	3
Office Machines 110	5	Tax Accounting 401	3
U.S. History 104	5	Fund. of Physical Science 125	
Principles of Economics 201	3	or General Biology 101	5
		Principles of Economics 202	3
		Business Law 301	3
—	16	—	17

DATA PROCESSING & COMPUTER PROGRAMMING

DEGREE: Associate of Science

In consideration of the rapid increase in the use of electronic equipment in business and industry, the Data Processing curriculum has been developed by Missouri Southern College. Students successfully completing this curriculum will find many opportunities for employment in such areas as banking, industry, and various governmental agencies.

A two-year curriculum is outlined below. Although the order in which courses are taken may be modified to meet individual needs, all courses are required for the Associate of Science Degree with a major in Data Processing.

In addition to the General Education requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Course Hours
101, 102 and 201	Accounting	9
022 or 133	Algebra	3
170	Basic Computing Machines	3
172	Key-Punch Operation	3
180	Data Processing Applications	3
181	Computer Machine and Machine Language	3
315	Business Statistics	3
173	Introduction to Programming	3
182	Systems Development and Design	3
201 and 202	Principles of Economics	6
350	Business Organization and Management ..	3
177	Advanced Programming	3

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Accounting 101	3	Accounting 102	3
English 102	3	Business Communications 120	3
Intermediate Algebra 022	3	Introduction to Programming 175	3
(or college algebra 133)		Computer Machine and Machine	
Basic Computing Machines 170	3	Language 181	3
Key-Punch Operation 172	3	Business Statistics 315	3
Physical Education 101	1	Physical Education 102	1
	16		16

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Accounting 201	3	Business Organization and	
Advanced Programming 177	3	Management 350	3
Principles of Economics 201	3	Principles of Economics 202	3
Systems Development & Design 182	3	Speech 101 or 102	3
Fundamentals of Physical		Data Processing Applications 180	3
Science 125	5	U.S. History 104, or U.S.	
		Government 120 and State	
		Government 222	5
	17		17

ELECTRONIC DATA PROCESSING COORDINATOR

DEGREE: Associate of Science

This curriculum will prepare the graduate for immediate employment in tabulating departments in banks, industries, or governmental agencies. He would be capable of simple program design and operation of tab equipment and possess an extensive background in general secretarial work.

In addition to the General Education requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
101 and 102	Accounting	6
022 or 133	Algebra	3
201	Typewriting	3
101	Introduction to Business	3
350	Business Organization & Management	3
170	Basic Computing Machines	3
172	Key-Punch Operation	3
175	Introduction to Programming	3
177	Advanced Programming	3
	*Business Electives	16

*Electives should be selected from the business areas of Statistics, Economics, Shorthand, Secretarial Procedures, Business Law, or Office Machines.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	Accounting 102	3
Typewriting 101 or 201	3	Business Communications 120	3
Accounting 101	3	Office Machines 110 or 111	3
Business Mathematics 105	3	Introduction to Business 101	3
(or Algebra 022 or 133)		Typewriting 102 or elective	3
Basic Computing Machines 170	3	Physical Education 102	1
Physical Education 101	1		
	<hr/> 16		<hr/> 16

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
U.S. History 104 or U.S. Government 120 and State Government 222	5	Natural Science	5
Key-Punch Operation 172	3	Advanced Programming 177	3
Introduction to Programming 175	3	Speech 101 or 102	3
Principles of Economics 201	3	Economics 202	3
Business Organization and Management 350	3	Algebra 022 or 133 (or Business Statistics 315)	3
	<hr/> 17		<hr/> 17

COMPUTING ANALYSIS

DEGREE: Associate of Science

This curriculum will prepare the graduate for entry into the fields of Science and Engineering as a Computer Programmer. In this field the programmer confers with engineers, scientists and other officials concerned, to determine if data meets the needs of the problems and, if necessary, develops mathematical formulas and procedures to provide more efficient machine operation.

In addition to the General Education requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
103	Introduction to the Logic of Mathematics	3
145 and 155	Calculus w/Analytic Geometry	10
255 and 265	General Physics	10
453	Numerical Analysis	4
175	Introduction to Programming	3
177	Advanced Programming	3
181	Computer Machine & Machine Language	3
280	Strength of Materials	3
290	Analogue Computers	3
	*Electives	

*Electives should be selected from the mathematics or Physical Science areas of Calculus III (Math 265) and statistics, differential equations, Vector analysis, Analytical mechanics, or Heat and Thermodynamics.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	Technical Report Writing 130	
*College Algebra and		(or English 103)	3
Trigonometry 115	5	Calculus w/Analytic Geometry 145	5
Advanced Programming 177	3	Data Processing Application 180	3
Introduction to the logic		Computer Machine and Machine	
of Mathematics 103	3	Language 181	3
Physical Education 101	1	Speech 101 or 202	3
	<hr/> 15		<hr/> 17

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Statistics 123	3	Analogue Computers 290	3
Calculus w/Analytic Geometry 255	5	Numerical Analysis 453	4
General Physics 255	5	General Physics 265	5
Strength of Materials 280	3	U.S. History 104 or U.S.	
Physical Education 102	1	Government 120 and State	
		Government 222	5
	<hr/> 17		<hr/> 17

*Student would take Intermediate Algebra preceeding semester if needed.

SECRETARIAL SCIENCE

DEGREE: Associate of Science

The Secretarial Science curriculum has been developed to prepare students for positions as professional secretaries.

In addition to the General Education Requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
101	Introduction to Business	3
101	Accounting	3
201	Advanced Typewriting	3
220	Dictation and Transcription	3
230	Secretarial Procedures	3
301	Business Law	3
	*Electives	

*Electives may include prerequisite courses in Shorthand and Typewriting leading to Advanced Typewriting (201) and Dictation and Transcription (220). Other electives must be selected from the areas of Business Organization and Management, Accounting, Principles of Economics, Geography, Business Communications, General Psychology, and Office Machines.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	English 103 or Business	
Shorthand 110 or 210	3	Communications 120	3
Typewriting 101 or 201	3	Shorthand 111 or Dictation and	
Business Mathematics 105	3	Transcription 220	3
Physical Education 101	1	Typewriting 102 or Business	
Introduction to Business 101	3	Elective	3
		Accounting 101	3
		Speech Techniques 101	3
		Physical Education 102	1
	16		16

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
U.S. History 104	5	Fundamentals of Physical	
Typewriting 201 or Business		Science 125 or General	
Elective	3	Biology 101	5
Shorthand 210 or Business		Dictation and Transcription	
Elective	3	220 or Business Electives	3
Office Machines 110	3	Secretarial Procedures 230	3
*Elective	3	Business Law 301	3
		*Elective	3
	17		17

*Electives: Principles of Economics; Business Organization and Management; Accounting; Geography of United States; General Psychology; Typewriting 201 and Dictation and Transcription 220 are required for graduation.

ONE YEAR SECRETARIAL-TYPIST

Certificate of Achievement:

The Secretarial Certificate curriculum has been developed to provide students with the training to obtain employment as secretarial-typist. Upon successful completion of the required course Missouri Southern will grant a Certificate of Achievement.

Suggested order of study:

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	Dictation & Transcription 220	3
Shorthand 210	3	Accounting 101	3
Typewriting 201	3	Speech Techniques 101	3
Introduction to Business 101	3	Office Machines 110	3
Business Mathematics 105	3	Business Communications 120	3
<hr/>		<hr/>	
15		15	

NURSING CURRICULUM

DEGREE: Associate of Science

Missouri Southern College offers a nursing program leading to an Associate of Science Degree. Graduates of this program are eligible to take the Missouri State Board of Nursing Examinations for a license as a Registered Nurse, (R.N.). This program is accredited by the Missouri State Board of Nursing.

Graduates of the Associate Degree Nursing Program are prepared to give care to patients as beginning general staff nurses. They are also prepared to share responsibility for care of patients with members of nursing and other allied health teams.

The Associate Degree Nursing Program is designed to fulfill the educational needs of qualified high school graduates who want to prepare for nursing in a relatively short time and who want to study in a multi-purpose collegiate institution where they share the responsibilities, privileges, and intellectual and social experiences with all other students.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Anatomy & Physiology 220	5	Chemistry 105	5
English 102	3	Psychology 101	3
Sociology	140	Medical & Surgical Nursing 120 ..	8
Fundamentals of Nursing 100	5	Physical Education 102	1
Physical Education 101	1	<hr/>	
17		17	

SUMMER SESSION

Psychiatric Nursing 130	4
Growth and Development 140	3
<hr/>	
7	

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Microbiology 210	5	U.S. History 104 or	
English 103	3	Government 120	3-5
Maternal & Child Health 210	8	Speech 101	3
Nursing Trends I 201	1	Medical & Surgical Nursin 220	8
<hr/>		Nursing Trends II 202	1
17		<hr/>	
17		17	

AUTOMOTIVE TECHNOLOGY

DEGREE: Associate of Science

Missouri Southern College offers a planned curriculum in Automotive Technology. Major emphasis in this curriculum is placed on specialization in automotive service; however, the training received also provides the background for entry into research and experimental fields. General education courses providing a basis for growth as an individual, a family member and a citizen are included in the curriculum.

The curriculum at Missouri Southern College is college oriented. Students are regular members of the college student body. A full range of campus activities is open to them, and they are expected and encouraged to participate in extracurricular activities.

In addition to the General Education Requirements for the Associate of Science Degree the following courses are required:

Course Number	Course Title	Credit Hours
111	Technical Mathematics	3
100	Automotive Engines	5
130	Technical Report Writing (or English 102)	3
101	Business and Shop Records (or Accounting 101)	3
1	Engineering Drawing	2
120	Automotive Electrical, Ignition and Carburation Systems	5
101	General Psychology	3
190	Technical Science (or El. Col. Physics 155)	5
200	Automotive Chassis, Brakes and Transmissions	5
220	Automotive Refrigeration and Air Conditioning	3
250	Automotive Body and Paint	5
260	Automotive Servicing	5

*Electives

*Electives should be selected from the fields of Business Law or Economics.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	Technical Report Writing 130 (or English 103)	3
Fundamentals of Physical Science 125	5	Accounting 101 (or Business and Shop Records	3
Technical Mathematics 111	3	Engineering Drawing 1	2
Automotive Engines 100	5	General Psychology 101	3
Physical Education 101	1	Automotive Electrical, Ignition and Carburation, Systems 120	5
		Physical Education 102	1
	17		17

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
U.S. American History 104	5	Speech Techniques 101	3
Technical Science 190	4	Business Law 301	3
Automotive Chassis, Brakes, and Transmissions 200	5	Automotive Servicing 260	5
Automotive Refrigeration and Air-conditioning 220	3	Automotive Body and Paint 250 ..	5
	17		16

JUNIOR COLLEGE TRANSFER CURRICULA

The Junior College transfer curricula are designed for students who desire later to continue in the Senior Division at Missouri Southern College or to transfer to other baccalaureate granting institutions. It should be clearly understood by the student that all such institutions have their own entrance requirements, and any student interested in such prospective transfer should consult the latest catalogues of those colleges. The curricula set forth in this section under various headings are ordinarily sufficient to satisfy requirements of other colleges and universities.

Students beginning their education in the Junior College Division of Missouri Southern College with the intentions of continuing their study in the Senior College Division leading to a Baccalaureate Degree should follow the suggested curriculum as outlined in the Senior College Division.

AGRICULTURE CURRICULUM

DEGREE: Associate of Arts

In addition to the General Educational requirements the following courses are suggested:

Courses	Credit Hours
Chemistry	5
Botany or Zoology	5
Economics	5
Algebra	3
Accounting	3
General Psychology	3
Sociology	3
*Electives	10

*Elective should be selected in accord with the requirements of the curriculum of the College to which the student will transfer.

DENTAL CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
Chemistry	8
Zoology	5
Anatomy and Physiology	5
Physics	8
Electives	3

*Consult catalog from school to which you will transfer.

ENGINEERING CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:

Courses	Credit Hours
Mathematics 145, 225 and 265	15
Chemistry 155 and 153	8
Engineering Drawing	2
**Descriptive Geometry	2
Physics 225 and 265	10
Electives	5

*The admission requirements for this curriculum must include four units in mathematics and one unit in science with laboratory.

**Not required of Chemical Engineers.

Suggested order of study:

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
English 102	3	English 103	3
*Mathematics 145	5	Mathematics 255	5
Engineering Drawing	2	Descriptive Geometry or	
Slide Rule	1	**Qualitative Analysis	2-3
Chemistry 115	5	Chemistry 153	3
Physical Education	1	Physics 255	5
		Physical Education	1
	17		19 or 20

SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Mathematics 265	5	Mathematics 323	3
Physics 265	5	Statics	5
History of U.S.	5	Speech	3
English Literature	3	Atomic and Nuclear Physics	3
		Psychology	3
		Electives	2
	18		19

*Students who do not qualify for Mathematics 145 will be one semester behind in this schedule in both Mathematics and Physics.

**Students electing to take Qualitative Analysis must wait until the sophomore year to take Physics 255.

JOURNALISM CURRICULUM

DEGREE: Associate of Arts

Includes preparation for Editorial, Advertising, Publishing and non-technical Radio Curriculums.

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
Foreign Language (in 1 language)	13
Economics	5
Survey of Journalism	1
**Electives	8

*Consult catalog from school to which you will transfer.

*One unit of Typewriting should be included in the high school credits.

**Electives should be chosen from Sociology, General Psychology, Mathematics, Exposition, Accounting.

MEDICAL CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
**Foreign Language (in one language)	10
Chemistry	8
Qualitative Analysis	3
Zoology	5
Anatomy and Physiology	5
Physics	8
Electives	none
Consult catalog of the medical school to which you will transfer.	

**Not required if the particular school the candidate plans to attend does not require a foreign language.

The student should select a major in science or mathematics from the Senior College Curricula. Some of the above courses may be taken while the student is a junior or senior.

MEDICAL TECHNOLOGIST CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
Chemistry	8
Quantitative Analysis	5
Qualitative Analysis	3
Zoology	5
Botany	5
Anatomy and Physiology	5
Electives	none

(The student should have satisfactorily completed a course in type-writing in high school).

*Consult catalog of the school to which you will transfer.

OPTOMETRY CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
English Literature	3
Algebra and Trigonometry	5

Zoology	5
Chemistry	8
Physics	8
General Psychology	3
Electives	5

*Consult catalog of the school to which you will transfer.

PHARMACY CURRICULUM

DEGREE: Associate of Arts

In addition to the General Education requirements the following courses are suggested:*

Courses	Credit Hours
Algebra and Trigonometry	5
Zoology	5
General Chemistry	8
Physics	8
Accounting	3
Botany	5
Qualitative Analysis	3
Quantitative Analysis	5
Electives	none

*Consult catalog of the school to which you will transfer.

PRE-LAW CURRICULUM

Students following a Pre-Law curriculum usually work toward a Bachelor of Arts Degree with a major in English, History, or Political Science. Consult the Senior College section for the first two years. Study the requirements listed in the college catalog of the school to which you will transfer.

SENIOR COLLEGE DIVISION

BACCALAUREATE DEGREE PROGRAMS

GRADUATION REQUIREMENTS:

Graduation requirements for the senior college program fall into these categories: (1) General college requirements, (2) Specific degree requirements, and (3) Departmental major and minor requirements. These three categories are explained in the following sections:

I. GENERAL COLLEGE REQUIREMENTS

A. Requirements Common To All Baccalaureate Degrees

1. Total semester hours required: 124 semester hours
2. Total semester hours Upper Division 40
3. Grade point average for all courses taken: 2.00

B. General Education Curriculum

A program of general education is required of all students, including transfer students, in a baccalaureate program. These general studies are aimed at providing every graduate with a liberal education in the basic areas of learning.

Area A. Basic Skills	Credit Hours
English 102 and 103 Composition or	6
*English 104 can be submitted for the total composition requirement.	
Speech 101 Speech Techniques	3
or	
Speech 201 Public Speaking	
Mathematics 103 Introduction to the Logic of Math 3	
or	
Mathematics 113 College Algebra	
or	
an equivalent course	
TOTAL hours required in Area A	12-14
Area B. Social and Behavioral Sciences	
History 104 History of United States	5
Psychology 101 General Psychology	3
One of the following:	2-3
Pol. Science 120 U.S. Government	
Pol. Science 222 State Government	
Pol. Science 324 Comparative Government	
One of the following:	3-5
History 200 Western Civilization	

History 203 or 204 Modern European History
 History 313 Mediterranean World
 History 319 Economic History of U.S.
 Economics 201 or 202 Principles of Economics
 Geography 220 Regions and Nations
 Geography 335 Geography of U.S.S.R.
 Sociology 140 General Sociology

TOTAL hours required in Area B 13-16

Area C. Humanities

One or two of the following: 3-6
 English 106 or 107 World Literature
 *English 207 or 208 English Literature
 One or two of the following: 3-6
 Art 102 Introduction to Art
 Music 150 Music Appreciation
 Drama 221 Introduction to the Theatre
 Philosophy 280 Introduction to Philosophy
 Art 301 or Art 302 Art History

TOTAL hours required in Area C 9

Area D. Natural Science

Biology 101 General Biology 5
 or
 *any five hour course in biology
 Physics 125 Fundamentals of Physical Science 5
 or
 *any five hour course in physics
 TOTAL hours required in Area D 10

Area E. Health and Physical Education

HPER 101 & 102 Introduction to Physical Activity 2
 or
 two additional Physical Education Activity courses 2

TOTAL hours required in Area E 4

* Must have departmental permission

Notes: (1) All freshmen must enroll each semester in English and physical education until the general education requirements in these areas are fulfilled.

(2) A more advanced course may be substituted in any area above with the permission of the department responsible for the general education course.

C. Special Rules Common To All Baccalaureate Degrees.

1. A student who transfers sixty or more semester hours to this college must complete the general education requirement but is exempt from physical education requirements. A student who transfers less than sixty semester hours of work to the lower division will have one hour of physical education excused per each 15 semester hours of credit transferred.
2. No Bachelor of Arts or Bachelor of Science in Education degree may require more than 50 semester hours of course credit for a major area of concentration (major subject plus related courses). No Bachelor of Science degree may require more than 55 semester hours of course credit for a major area of concentration (major subject plus related courses). A student may elect to take courses in his major beyond these limits but may not be required to take such courses. However, no more than 60 semester hours in any one major may be counted toward a degree.
3. A student must earn thirty of this final thirty-six semester hours in residence at this College.
4. A student must complete a minimum of 12 semester hours of his major area requirements in courses numbered 300 and above.
5. Each degree candidate must file credentials in the Placement Bureau.
6. Each student must make application for a degree no later than six weeks after his registration in the last semester of the school year in which he is to receive the degree. This is to be done in the Office of the Registrar.
7. Any student who expects to take an undergraduate degree in any Missouri state college must satisfactorily complete a course in United States History which includes study of institutions, national and state government. This requirement may be satisfied by History 104 or any course in national or state government.
8. A student may not offer by correspondence or extension more than one fourth of the total hours required for any Baccalaureate degree.
9. Credit in educational methods courses and student teaching can be applied only to the B.S. in Education degree.

II. DEGREES OFFERED

A. Bachelor of Arts Degree

1. This degree is offered those students desiring a liberal preparation in the humanities or social sciences. Students are required to complete a minimum number of semester hours specified by the department of his major area of concentration. In each case, the minimum shall be in excess of 30 semester hours.

This degree is available in:

- a. English
- b. History
- c. Music
- d. Political Science
- e. Speech and Drama

With foreign language

2. A student must also satisfactorily complete a minimum of 10 semester hours or the equivalent of a single foreign language.
3. A student is required to present a minimum of 15 semester hours in courses which support his major area of concentration (minor). This supporting area is to be approved by the student's advisor.
4. The student must complete a minimum of 12 semester hours in area C of the general education requirements.
5. A student must complete the departmental requirements.

B. Bachelor of Science Degree

1. This degree is offered those students who desire intensive academic preparation within an area of concentration. A student must complete a number of semester hours as specified by the department of his major area of concentration. In each case the minimum shall be in excess of 36 semester hours.

This degree is available in:

- a. Biology
- b. Chemistry
- c. Business Administration
- d. Mathematics

No foreign language

2. A student must complete the departmental requirements which may also require supporting courses in areas related to the major area of concentration.

C. Bachelor of Science in Education Degree

1. This degree is offered those students desiring to teach in the elementary or secondary school. Completion of the requirements will qualify a person for life certification in Missouri.

A student must select a major area of concentration from:

- a. Elementary Education
- b. Major or minor areas of concentration at the Secondary level.

- (1) Art
- (2) Biological Science
- (3) Business
- (4) English
- (5) Foreign Language (Spanish)
- (6) Mathematics
- (7) Music
- (8) Health, Physical Education and Recreation
- (9) Physical Science
- (10) Speech and Drama

- c. A special program is available which makes it possible to qualify to teach music or physical education at both the elementary and secondary levels. Information can be obtained from either department concerned.

2. A student specializing in elementary education must complete these additional or specific general education courses:

- a. Biology 302, Field Biology
- b. One additional course in mathematics
- c. A course in geography must be selected in Area B.

3. A student emphasizing secondary education must complete departmental course requirements under either Option A or Option B as shown below:

Option A. Two teaching fields requiring not less than the minimum requirements of the Missouri State Department of Education for secondary school teaching and not more than thirty-six hours each. (Option A is not available in social science, music, or for programs preparing teachers for both elementary and secondary certification.) Courses counted toward the fulfillment of general education requirements must be included in the thirty-six hours.

Option B. One teaching field, or area of concentration, of (1) not fewer than thirty-six semester hours and up to fifty semester hours and (2) in addition, up to twenty-one semester hours in a related field or fields is suggested. The twenty-one hours in a field will allow a person to be certified for grades seven-nine. Courses in general education may be included in the required programs for the first teaching field if departments wish to do so. General education courses must be included in the related field.

Each Department which prepares students for secondary teaching has developed a program of courses to be taken for the options available in that department.

4. A student must complete the professional education course requirements as listed in the section relating to the Teacher Education program.

TEACHER EDUCATION PROGRAMS

The preparation of teachers and educational specialists at Missouri Southern College is recognized as an all-college responsibility by the faculty. The purpose of the Division of Education, Psychology, and Physical Education to promote overall coordination of the program of teacher education and to provide specific course work in the field of professional education, psychology, and physical education.

There are several principles on which the program of teacher education is based. These are:

1. A teacher should be provided a broad general education.
2. A teacher should be required to demonstrate an acceptable degree of mastery in his specialized teaching fields.
3. A teacher should possess the personal qualities that can be identified as essential for effective teaching.
4. A teacher should possess the professional competences necessary to serve his profession effectively.

Through the program of teacher education, the College seeks to achieve these objectives:

1. To provide graduates of secondary schools in the College service area with information on teaching as a profession.
2. To identify and attract to the program of teacher education students who possess the intellectual and personal qualities necessary to become effective teachers.
3. To provide a program of studies that will develop graduates capable of assuming duties as teachers in the elementary or secondary schools.
4. To cooperate with local, state, regional, and national agencies that have as their aim the improvement of education.
5. To assist schools, boards of education, and other educational groups in problems relating to educational programs.

Degree Programs

The Division of Education, Psychology and Physical Education offers an undergraduate major leading to the degree, Bachelor of Science in Education.

The division also administers the department of physical education and recreation and offers a teaching major at both the elementary and secondary levels in this field.

Students who later plan to teach in elementary and/or secondary schools should work toward the degree, Bachelor of Science in Education. Satisfactory completion of the requirements for this degree entitles the graduate to a teaching certificate for the State of Missouri. Recipients of other degrees must meet the detailed requirements specified by the State Board of Education.

In working toward the degree, Bachelor of Science in Education, the student may specialize in elementary education or in secondary education. If preparation for teaching on the elementary level is desired, the student should emphasize kindergarten-primary grades or the intermediate grades. In either case, the major field of study is elementary education.

A student who selects the secondary level of teaching, with the objective of working in high school or junior high school, will choose a teaching field or teaching fields in accordance with one of the two optional patterns described later. A student interested in secondary teaching will major in an academic field of specialization other than education. Each student is encouraged to devote his freshman year to an exploration of his interests and abilities so that his final choice will reflect sound and mature judgment.

Advisement

Each student will be assigned to an advisor who will help plan the program of studies and will assist the student in every way possible. Elementary majors will have advisors assigned by the Division of Education, Psychology, and Physical Education; students in secondary fields will have advisors assigned by the department in which the student chooses to specialize.

The Division of Education, Psychology, and Physical Education will provide information concerning certificate requirements, employment opportunities, sequence of professional courses, supervised teaching assignments, and admission to teacher education.

Admission to Teacher Education

Although all graduates of accredited high schools are eligible to enter the College, not all students are eligible for admittance to candidacy for the degree, Bachelor of Science in Education, which leads to a teaching certificate. College authorities will work carefully with interested students to help them identify qualities which point to success in the teaching profession.

The student who is planning to qualify for a teaching certificate will make application for admission to the teacher education program on a form provided for this purpose. The form may be obtained from the Division of Education, Psychology, and Physical Education. Application may be made during the second semester of the sophomore year and must be made not later than the first semester of the junior year.

Each application will be reviewed by a committee which includes the Director of Teacher Selection, the Chairman of the Division of Education, or the head of the Department of Elementary Education or the Department of Secondary Education when appointed, the Director of the Placement Bureau, and (in the case of secondary majors) the heads of the departments or divisions in which the applicant is specializing.

The application is supplemented by the following information:

1. Results of tests taken at the time of entrance to the College or later;
2. Record of scholastic work completed;
3. Indication of an acceptable level of proficiency in the English language;
4. Record of experiences with children and youth;
5. An autobiography prepared by the applicant;
6. Indication of sound physical and mental health;
7. References obtained from faculty members and other appropriate individuals.

As a result of the review of the application, the student will be (1) approved for admission to the teacher education program, (2) approved on condition that certain requirements be met, (3) or advised not to continue in teacher education. The student must have been approved before he can be admitted to professional courses ordinarily scheduled in the junior year.

A minimum grade-point average of (2.1) is required for admission to teacher education. Furthermore, a minimum grade-point average of 2.2 and a grade-point of at least "C" in the Educational Psychology course is required for admission to supervised teaching, which is scheduled during the "Professional Semester" of the senior year. Exceptions to this requirement will not be allowed unless approved by the Teacher Selection Committee.

Specific Requirements

In addition to the general requirements for all baccalaureate degrees, specific requirements for the degree, Bachelor of Science in Education, have been established. These requirements fall into three areas: (1) General Education, (2) Specialized preparation in teaching fields, and (3) Professional Education.

1. General Education—The student must complete the general education requirements of the College, plus certain additional courses indicated on the list under "Course Requirements" by each department.

2. Specialized Preparation in Teaching Fields—Candidates for the degree, Bachelor of Science in Education, specialize in either elementary or secondary education. Those students desiring to teach at the secondary level may select from the following major areas of concentration: art, biology, business education, English, foreign languages, mathematics, music, physical education, physical science, social science, and speech and drama.

B look at

In choosing a teaching field, a student interested in elementary schools will select "Elementary Education" as a major. Those interested in secondary education will select one of the following optional plans:

Option A. Two teaching fields requiring not less than the minimum requirements of the Missouri State Department of Education for secondary school certification and not more than thirty-six hours credit. (Option A is not available in social science, music, or for programs preparing teachers for both elementary and secondary certification.) Courses counted toward the fulfillment of general education requirements must be included in the thirty-six hours.

Option B. One teaching field, or area of concentration, of (1) not fewer than thirty-six semester hours and up to fifty semester hours, and, (2) in addition, up to twenty-one semester hours in a related field or fields is suggested. The twenty-one hours in a field will allow a person to be certified for grades seven-nine. Courses in general education may be included in the required programs for the first teaching field if departments wish to do so. General education must be included in the related field.

Each department which prepares students for secondary teaching has developed a program of courses to be taken by students who choose to follow Option A or Option B. The student may obtain a copy of this program from the department. Option B is mandatory for majors in social science and music.

3. Professional Education—the following sequence of courses is to be completed by students planning to teach on the secondary or elementary level:

Junior Year:

Educ 330	Teaching in the Secondary School	5 hours
or		
Educ 320	Basic <i>Methods</i> Methodist of Elementary School Instruction	5 hours
Psyc 310	Educational Psychology	3 hours

Senior Year:

One semester of the senior year is devoted to a "Professional Semester." During the professional semester, the student will do supervised teaching during one-half of the semester (approximately nine weeks) and will carry three, three-hour courses during the other half of the semester. No additional course work may be carried except on an evening or Saturday basis. Courses to be taken during the professional semester are:

Secondary Teaching

Educ 490	Student Teaching, Secondary	6 hours
Educ 430	Legal and Professional Responsibilities of Educators	3 hours
Educ 405	History and Principles of Education	3 hours

Psyc 411	Measurement and Evaluation in Education	3 hours
or		
Psyc 202	Adolescent Psychology	3 hours

Elementary Teaching

Educ 480	Student Teaching, Elementary	6 hours
Educ 430	Legal and Professional Responsibilities of Education	3 hours
Educ 405	History and Principles of Education	5 hours
Psyc 411	Measurement and Evaluation in Education	3 hours
or		
Educ 420	Foundations of Curriculum Development	3 hours

Elementary and Secondary Teaching

For students desiring certification at both Elementary and Secondary levels the following sequence of professional education courses are recommended:

Junior Year:

Psyc 310	Educational Psychology	3 hours
Educ 330	Teaching in the Secondary School	5 hours

Senior Year:

Educ 481	Student Teaching Elementary	3 hours
Educ 493	Student Teaching Secondary	3 hours
Educ 430	Legal and Professional Responsibilities of Educators	3 hours
Educ 405	History and Principles of Education	3 hours
Psyc 411	Measurement and Evaluation in Education	3 hours
or		
Educ 420	Foundation of Curriculum Development	3 hours
or		
Psyc 202	Adolescent Psychology	3 hours

Home Base College

It is strongly recommended by the State Department of Education that all persons making application for teacher certification designate a home base college. The designated college is responsible for certifying to the State Department of Education that a person has fulfilled the necessary requirements for certification. To have Missouri Southern College designated for this purpose, a person must be admitted to the Teacher Education Program. Transcripts will be so worded as to indicate work completed at Missouri Southern College and work completed at other institutions if no degree is obtained from Missouri Southern College.

DIVISION OF EDUCATION, PSYCHOLOGY, HEALTH, AND PHYSICAL EDUCATION

Chairman: Dr. Charles F. Niess

Education: Lloyd Dryer, Charles Niess

Psychology: Floyd Belk, Lloyd Dryer, John Eli, Sam Starkey

Health, Physical Education, and Recreation: Douglas Landrith, Sam Starkey, Dudley Stegge, Ronald Toman, Venus Yount

The division is composed of four departments: Elementary Education, Secondary Education, Psychology, and Health, Physical Education, and Recreation.

Students planning to teach in the elementary or secondary schools should work toward the degree of Bachelor of Science in Education. Candidates for this degree should consult the area of this catalog relating to Teacher Education. Those with a specialized field at the secondary level should also consult the specific department in which they plan to concentrate.

Candidates for the degree, Bachelor of Science in Education, with a major in elementary education, in addition to other course, must select an area of concentration from: science (biological and physical), mathematics, social sciences, language arts, fine arts (music and art), or health and physical education. A minimum of twenty-one semester hours will be required for an area of concentration for elementary majors. This twenty-one hours in a field may also allow a teacher to teach the subject at the seventh, eighth, and ninth grade levels. Courses taken to satisfy the general education requirement may also be applied toward fulfilling the area of concentration requirement.

COURSE REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN EDUCATION WITH A MAJOR IN ELEMENTARY EDUCATION:

Course Number	Course Title	Credit Hours
Biol 302	Field Biology	2
Psyc 201	Child Psychology	3
Engl 210	Children's Literature	2
Mus 260	Music for the Elementary School	3
Art 203	Art Education	3
Hper 372	School and Comm. Health	3
Hper 311	Phy. Educ. for Elem. Teachers	2
Educ 313	The Exceptional Child	2
Educ 317	Arithmetic for Teachers	2
Educ 318	Science for Teachers	2
Educ 355	Teaching Lang. Arts and Reading	3
Educ 375	Instructional Media	2

One of the Following:	3
Engl 202 Exposition (3)	
Engl 305 Structure of Amer. English (3)	
One of the Following:	3
Engl 207 or 208 English Literature (3)	
Engl 307 or 308 American Literature (3)	
One elective in Math in excess of the general education requirement.	2-3

37-38 hours

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
Engl 102 Composition	3	Engl 207-208 English Literature	3
Engl 103 Composition	3	Psy Sci 125 Fund. of Phy. Sci.	5
Psyc 101 General Psychology	3	Hist 203 or 204 European History	3
Biol 101 General Biology	5	Mus 260 Music for Elem. School ..	3
Hist 104 History of U.S.	5	Geog 220 Regions and Nations	3
Math 103 Modern Math	3	Psyc 201 Child Psychology	3
Art 102 Introduction to Art	3	Sp 101 Techniques of Speech	3
Hper 102 Intro. to P. E. I	1	Engl 210 Children's Literature	3
Hper 102 Intro. to P. E. II	1	Electives Health or P. E.	2
Pol. Sci 222 State Government	2	Electives in Health or P. E.	5-6
Electives	3-5		
Total	32-34	Total	33-34
<i>Third Year</i>		<i>Fourth Year</i>	
Engl 305 Struct. of Amer. Engl. or		Hper 372 School Comm. Health ..	3
Engl 202 Exposition	3	Biol 302 Field Biology	2
Art 203 Art Education	3	Educ 375 Instructional Media	2
Hper 311 P. E. Elem. School	2	Educ 313 Exceptional Child	2
Educ 317 Arith. for Teachers	2	Professional Semester:	
Educ 318 Science for Teachers	2	Educ 400 Student Teaching	6
Psyc 310 Educational Psychology	3	Educ 430 Legal and Prof. Resp.	3
Educ 320 Basic Elem. Method	5	Educ 405 Hist. and Principles of Education	3
Educ 335 Teaching L.A. and Reading	3	Psyc 411 Meas. and Eval. in Ed.	3
Electives in Math	2-3	or	
Elective	6-8	Educ 420 Found. of Curr.	6-9
Total	31-34	Total	30-33

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

The Department of Health, Physical Education, and Recreation provides the basic physical education requirements for all students as well as supervising both the women's and men's intramural sports programs. The department also offers courses for a major and minor area of concentration in the field of health, physical education, and recreation for both women and men desiring the degree, Bachelor of Science in Education.

Curricular programs are offered that lead to certification to teach health, physical education, and recreation in either or both elementary and secondary schools in Missouri. Students enrolling for this degree

should select a program under "Option B" if he plans to teach at both the elementary and secondary level or under "Option A" if he plans to teach only in secondary schools. Students choosing "Option A" must also qualify for a second teaching field. The second field should be selected from: art, biology, business education, English, a foreign language, mathematics, or physical science. The student should consult the specific department concerned for the requirements of the second teaching field selected.

**COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE
DEGREE IN EDUCATION WITH A MAJOR IN MEN'S
PHYSICAL EDUCATION AS A SINGLE
TEACHING FIELD:**

Course Number	Course Title	Credit Hours
Psyc 201	Child Psychology	3
Psyc 205	Psychology of Personal Adjustment	3
Biol 202	Human Anatomy	5
Hper 150	Foundations of Phys. Ed. I	4
Hper 151	Foundations of Phys. Ed. II	4
Hper 312	Phys. Ed. in Elementary Schools	2
Hper 345	Kinesiology	3
Hper 434	Administration of Extra-Class Programs	2
	in Physical Education	
Hper 455	Organization and Administration of	3
	Physical Education	
Hper 265	Advanced Swimming and Water Safety	2
	(or 2 activity credits in swimming)	
Hper 372	School and Community Health	3
	or	
Hper 433	Administration of Interscholastic Athletics	
Hper 391	Recreational Leadership	3
	or	
Hper 346	Organization of Adapted Physical Education	
Hper 285	First Aid and Safety	3
	or	
Hper 348	Care and Prevention of Injuries	
	Eight hours selected from:	
Hper 451	Coaching Football	2
Hper 542	Coaching Basketball	2
Hper 453	Coaching Track	2
Hper 420	Teaching and Supervising of Sports I	3
Hper 421	Teaching and Supervising of Sports II	3
Hper 355	Rhythmic Form and Analysis	2
Total		48

(Students planning to teach in elementary schools should select at least one of: 420, 421, 355)

COURSE REQUIREMENTS FOR TEACHING MEN'S PHYSICAL EDUCATION WHEN A SECOND TEACHING FIELD IS DESIRED: (OPTION A)

Course Number	Course Title	Credit Hours
Biol 220	Human Anatomy	5
Hper 150	Foundation of Physical Ed. I	4
Hper 151	Foundation of Physical Ed. II	4
Hper 345	Kinesiology	3
Hper 455	Organization and Administration	3
	of Physical Education	
Hper 372	School and Community Health	3
Hper 265	Advan. Swimming and Water Safety	2
	(or 2 activity credits in swimming)	
Hper 391	Recreational Leadership	3
Hper 433	Administration of Interscholastic Athletics	
Hper 285	First Aid and Safety	3
	or	
Hper 348	Care and Prevention of Injuries	
	Six hours selected from:	
Hper 451	Coaching Football	2
Hper 452	Coaching Basketball	2
Hper 453	Coaching Track	2
Hper 420	Teaching & Supervising of Sports I	3
Hper 421	Teaching & Supervising of Sports II	3
Hper 355	Rhythmic Form & Analysis	2
Total		36

Suggested Order of Study Men's (Option B) Physical Education:

<i>First Year</i>		<i>Second Year</i>	
Englsh 102 and 103 Composition	6	Phys 125 Fund. of Phy. Sci.	5
Math 103 or 113 Modern Math ..	3	Po Sc 120 U.S. Government	3
Hist 104 History of U.S.	5	Hist 203 European History	3
Hper 150 Fund. of P.E. I	4	Engl 106 Masterpieces of Lit.	3
Hper 151 Fund. of P. E. II	4	Psyc 101 General Psychology	3
Biol 101 General Biology	5	Phil 280 Intro. to Philosophy	3
Sp 101 or 201 Tech. of Speech	3	Hper 265 or 112 & 212 Swimming ..	2
Hper 162 Health Education	2	Biol 220 Human Anatomy	5
		Psyc 201 Child Psychology	3
		Mus 150 Masterpieces of Music	3
Total		Total	
	32		33
<i>Third Year</i>		<i>Fourth Year</i>	
Hper 312 P. E. Elem. School	2	Hper 455 Organ. & Adm. of P. E.	3
Hper 345 Kinesiology	3	Hper 452 Coaching Basketball	2
Hper 420 Teach. & Supv. Sports	3	Hper 434 Adm. of Extra-Class	2
Hper 355 Phy. Form & Analysis ..	2	Prgam in P. E.	
Hper 348 Care and Prevention	3	Hper 372 or 433 Sch. & Comm.	
Psyc 205 Psych. of Personal Adj.	3	Health	3
Hper 391 or 346 Rec. Leadership	3	Electives	6-8
Hper 451 Coaching Football	2	Professional Education Semester (15)	

Psyc 310 Educational Psychology	3
Educ 330 Teaching in Sec. Schools	5
Electives	4-5

Educ 430 Legal & Prof. Rsp. of Ed.	3
Educ 405 Hist. & Prin. of Educ.	3
Educ 411 Meas. & Eval. (3), or	3
Educ 430 Fund. of Curr. Devel. (3),	
or Phyc 201 Adoles. Psychology (3)	
Educ 481 St. Teaching Elem.	3
Educ 493 St. Teaching Sec.	3

Total

32-33

31-33

COURSE REQUIREMENTS FOR A SINGLE TEACHING FIELD IN PHYSICAL EDUCATION FOR WOMEN: (OPTION B)

Course Number	Course Title	Credit Hours
Psyc 201	Child Psychology	3
Biol 220	Human Anatomy	5
Psyc 205	Psychology of Personal Adjustment	3
Hper 150	Foundations of Physical Education I	4
Hper 151	Foundations of Physical Education II	4
Hper 265	Advanced Swimming and Water Safety	2
	(or 2 activity courses in swimming)	
Hper 312	Physical Education for the Elementary Sch.	2
Hper 285	First Aid and Safety	3
Hper 345	Kinesiology	3
Hper 355	Rhythmic Form and Analysis	2
Hper 434	Adm. of Extra-Class Pro. in Phys. Ed.	2
Hper 455	Org. and Adm. of Physical Ed.	3
Hper 420	Teaching and Super. of Sports I	3
Hper 421	Teaching and Super. of Sports II	3
Hper 372	School and Community Health	3
Hper 391	Recreational Leadership	3
	or	
Hper 346	Org. of Adapted Phys. Ed.	—
	Total	48

Suggested Order of Study Women's Physical Education Option B:

First Year		Second Year	
Engl 102 and 103 Composition	6	Phys 125 Fund. of Phy. Sci.	5
Math 103 or 113 Modern Math	3	Po Sc 120 U.S. Government	3
Hist 104 History of U.S.	5	Hist 203 European History	3
Hper 140 Fund. of P. E. I	4	Engl 106 Masterpieces of Lit.	3
Hper 141 Fund. of P.E. II	4	Psyc 101 General Psychology	3
Biol 101 General Biology	5	Phil 280 Intro. to Philosophy	3
Sp 101 or 201 Tech. of Speech	3	Hper 265 or 112 & 212 Swimming	2
Hper 162 Health Educ.	2	Biol 220 Human Anatomy	5
		Psyc 201 Child Psychology	3
		Mus 150 Masterpieces of Music	3
Total	32	Total	33
Third Year		Fourth Year	
Hper 312 P. E. Elem. School	3	Hper 455 Orig. and Adm. of P. E.	3
Hper 345 Kinesiology	3	Hper 434 Adm. of Extra-Class	

Hper 420 Teaching and Supv. I ..	3	Program in P. E.	2
Hper 421 Teaching & Supv. II	3	Hper 372 School & Comm. Health	3
Hper 355 Rhythm, Form & Analysis	3	Hper 391 or 346 Rec. Leadership	3
Hper 285 First Aid and Safety	3	Professional Education Semester (15)	
Psyc 205 Psyc. of Personal Adj.	3	Educ 430 Legal & Prof. Resp. of Ed	3
Educ 330 Teaching Sec. Schools ..	5	Educ 405 Hist & Prin. of Educ.	3
Electives	5-6	Psyc 411 Meas. & Eval. (3) or	
		Educ 430 Fund. of Curr. Devel. (3)	
		or Psyc 201 Adoles. Psychology (3)	3
		Educ 481 St. Teaching Elem.	3
		Educ 493 St. Teaching Sec.	3
		Electives	6-8
Total	32-33	Total	32-34

COURSE REQUIREMENTS FOR TEACHING WOMEN'S PHYSICAL EDUCATION WHEN A SECOND TEACHING FIELD IS DESIRED: (OPTION A)

Course Number	Course Title	Credit Hours
Psyc 220	Human Anatomy	5
Hper 150	Foundation of Physical Education I	4
Hper 151	Foundation of Physical Education II	4
Hper 345	Kinesiology	3
Hper 455	Organization and Administration of Phys. Ed.	3
Hper 372	School and Community Health	3
Hper 285	First Aid and Safety	3
Hper 355	Rhythmic Form and Analysis (2)	2
	or	
Hper 265	Advanced Swimming and Water Safety (2)	
	or	
	(2 activities courses in Swimming)	
Hper 420	Teaching and Supervision of Sports I	3
Hper 421	Teaching and Supervision of Sports II	3
Hper 391	Recreational Leadership (3)	3
	or	
Hper 346	Organization of Adapted Physical Education (3)	
	Total	36

COURSE REQUIREMENTS FOR A MAN OR WOMAN DESIRING TO TEACH PHYSICAL EDUCATION AT THE JUNIOR HIGH LEVEL ONLY:

Course Number	Course Title	Credit Hours
Hper 150	Foundation of Physical Education I	4
Hper 151	Foundation of Physical Education II	4
Hper 285	Safety and First Aid	3
Hper 455	Organization and Administration of Phys. Ed.	3
Hper 372	School and Community Health	2

Select any two of the following:

Course Number	Course Title	Credit Hours
Hper 451	Coaching Football	2
Hper 452	Coaching Basketball	2
Hper 453	Coaching Track	2
Hper 420	Teaching and Supervision of Sports I	3
Hper 421	Teaching and Supervision of Sports II	3
Hper 355	Rhythmic Form and Analysis	2
Total		21-22

DIVISION OF BUSINESS AND ECONOMICS

Chairman — Mr. L. Keith Larimore

Accounting: Dorothy Stone, John Gilmore, Kathryn Koger

Economics and Finance: L. Keith Larimore, John Gilmore

General Business: Clarence Cowan, John Gilmore

Marketing and Management: L. Keith Larimore, John Gilmore

Office Administration: Lorine Miner, Clarence Cowan, Kathryn Koger

There are three major objectives of the Division of Business Administration: (1) Preparing individuals for positions of responsibility and leadership in industry and government; (2) Preparing individuals to teach business subjects on the secondary level; and (3) Preparing individuals to enter the business community, obtain initial employment, and perform satisfactorily on the operative level in an organization.

It is the primary purpose of the Division of Business Administration to develop initially and improve continuously the caliber of instruction, programs, and courses which will achieve these objectives and thereby fulfill the educational needs of the individuals previously mentioned.

Degree Programs

The Division of Business Administration offers two baccalaureate degrees. These are a Bachelor of Science in Business Administration and a Bachelor of Science in Education with a major in business. In addition, several short-term business programs are offered, and these programs are directed by the Division of Semi-Professional and Technical Education.

In addition to the general education requirements of the college for the Bachelor of Science Degree, the student must also complete certain requirements in business. Students pursuing a Bachelor of Science in Education Degree with a major in business must complete the General Education requirements of the college plus additional specific course requirements set out in options A and B in the Teacher Education Program.

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BUSINESS ADMINISTRATION

Course Number	Course Title	Credit Hours
GB 101	Introduction to Business	3
Acct 101-102	Accounting	6
Econ 201-202	Principles of Economics	6
GB 120	Business Communications	3
Econ 301	Money and Banking	3
GB 301-302	Business Law	6
Mgmt 350	Business Organization and Management	3
Mgmt 301	Principles of Marketing	3
Fin350	Corporate Finance	3
Math 315	Statistics	3
Mgmt 355	Personnel Management	3

An additional twelve hours of business courses of which at least three hours are in each of the following departments:
Economics & Finance; Marketing & Management; General Business 12

54

Students desiring to specialize in accounting or marketing and management should follow the suggested programs in these specialized areas. Students can, with the approval of their advisors, substitute the courses in the specialized programs for the additional twelve hours previously cited. All students pursuing a Bachelor of Science Degree with a major in Business Administration, whether in a general or specialized program, must complete the General Business Requirements.

SUGGESTED PROGRAM OF ADDITIONAL COURSES FOR SPECIALIZATION IN ACCOUNTING AS A SUPPORTING AREA

Credit Hours

General Business Requirement 42

*Accounting (additional) 18

*Specific courses include:

Acct 201, Intermediate Accounting; Acct 202, Cost Accounting; Acct 301, Advanced Accounting; Acct 310, Consolidated Statements; Acct 401, Tax Accounting; Acct 410, Auditing.

SUGGESTED PROGRAM OF ADDITIONAL COURSES FOR SPECIALIZATION IN MARKETING AND MANAGEMENT AS A SUPPORTING AREA

Credit Hours

General Business Requirement 42

*Business Courses (additional) 18

*Specific courses include:

Mktg 310, Retailing; Mktg 320, Advertising; Mgmt 415, Marketing Management; Mgmt 360, Production Management; Mgmt 395, Business Policy, to equal 12 hours; Electives in Business, 6 hours.

Suggested order of study:

First Year

Enfl 102 Comp	3
Engl 103 Comp	3
Hist 104 History of U.S.	5
Psyc 101 General Psychology	3
HPER 101 & 102 Intro. P. E.	2
GB 101 Intro. to Bus.	3
Acct 101 & 102 Accounting	6
Math 103 or 113 or equivalent	3
Electives	3-5

Second Year

Biol 101 Biological Sci or	
Equivalent	5
Phys 125 Fundamentals of	
Physical Science	5
Sp 101 Techniques of Speech	3
Engl 106 & 107 & 207 or 208	3
Mus 150 Music Appreciation	3
Econ 201 & 201 Prin. of Economics	6
GB 120 Business Communications	3
HPER 162 Health Education	2
Electives	3

Total

31-33

Total

33

Third Year		Fourth Year	
Hist 203 European Hist or		Econ 301 Money & Banking	3
Geo. 220 or Soc. 140	3	Econ 350 Corporate Finance	3
Art 102 Intro. to Art	3	PoSc 120 U.S. Government	3
Math 315 Statistics	3	MgMt 355 Personnel Management	3
GB 301 & Business Law I & II	6	Elective in Economics	3
MgMt 350 Buiness Org. & Mg.	3	Elective in Marketing & Mg	3
MkTg 301 Prin. of Mkt.	3	Elective in General Business	3
Electives	9	Electives	9
Total	30	Total	30

NOTE: Individuals desiring to specialize in either Accountin gor Market- ing and Management should see the suggested curriculum for these two specialized areas. The additional courses suggested for these two areas of specialization should be taken as electives. Courses taken for speciali- zation are in addition to General Education Requirements and General Requirements in Business.

COURSE REQUIREMENTS FOR A BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN BUSINESS AS ONE OF TWO FIELDS (OPTION A)

Course Number	Course Title	Credit Hours
*	Typewriting	6
*	Shorthand	6
Acct 101-102-201	Accounting	9
Econ 201-202	Economics	6
	Elective in Business (No. 300 or above)	3
		30

COURSE REQUIREMENTS FOR A BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN BUSINESS AS A SINGLE TEACHING FIELD (OPTION B)

Course Number	Course Title	Credit Hours
GB 110	Office Machines	3
*	Typewriting	6
*	Shorthand	6
Acct 101-102-201	Accounting	9
Econ 201-202	Economics	6
GB 301-302	Business Law	6
Mgmt 350	Business Organization and Management	3
	Elective in Business (No. 300 or above)	3
		42

Suggested order of study: For the B. S. in Education Degree With a Major in Business (Option "A" and "B")

<i>First Year</i>		<i>Second Year</i>	
Engl 102 and 103 Composition	6	General Biology 101 or equivalent	5
Hist 104 History of U.S.	5	Phys 125 or equivalent	5
Math 103 or 113 or equivalent	3	Engl 106 or 107 or 207 or 208	6
Psyc 101 General Psychology	3	Music 150, Art 102, Drama 221, or Philosophy 280	3
Acct 101 and 102	6	Accounting 201	3
Sp 101 or 102	3	Econ 201 and 202 (Principles of Economics)	6
Phy Ed. 101 and 102	2	*Typewriting or Shorthand	3
*Typewriting or Shorthand	3	Health Education 162 or two activity courses	2
	31		33

<i>Third Year</i>		<i>Fourth Year</i>	
Political Science 120 or 222	2-3	Professional Education Semester (2nd)	15
Psyc 310 General Psychology	3	Electives in Business (No. 300 or above)	6
Educ 330 "Teaching in Secondary Schools" (Note: *Business Teaching Techniques is included) 5		Electives (Should meet requirements for two teaching fields—see de- tails of Option "A")	9
*Typewriting or Shorthand			
Electives (Should meet requirements for two teaching fields—see de- tails option "A")	15-18		
	31-33		30

<i>Third Year</i>		<i>Fourth Year</i>	
Political Science 120 or 222	2-3	Professional Education Semester ..	15
Psychology 310	3	Elective in Business (No. 300 or above)	3
Education 330 "Teaching in Sec- ondary Schools" (Note: Business Teaching Techniques No. 300 is included in above)		Electives (9 hours of No. 300 or above)	12
*Typewriting or Shorthand	6		
Business Law 301 and 302	6		
Business Organization and Management 350	3		
Office Machines 110 and 111	6		
	31-32		30

*NOTE: It is not necessary for a student to meet the Shorthand requirements if he wishes to teach only those Business Education subjects in which Shorthand is not involved. He must have at least 30 hours in Business Education and meet the requirements in the courses for which certification is desired.

If a student has been excused from a beginning Typing or Shorthand course on the basis of proficiency tests, his transcript must so indicate (Minimum 30 semester hours requirement must be met.)

DIVISION OF HUMANITIES AND FINE ARTS

Chairman — Dr. Ervin J. Dunham

Art: Arthur Boles, Darral A. Dishman

English: Marie L. Bickett, Jane Blades, Enid B. Blevins, Larry D. Dunham, Barbara N. Frizzell, Cleetis Headlee, Gwen T. Hunt, Grace Clayton Mitchell, Alfred H. Rogers, Bobbie Z. Short, Ima J. Van Natter, Ruby A. Wiley.

Foreign Languages: Enid B. Blevins, Lillian Spangler, Ruby A. Wiley.

Speech and Drama: Milton W. Brietzke, Duane Hunt.

Music: Ervin J. Dunham, Oliver Sovereign, William L. Taylor.

Applied Music: Marguerite Carney, William Elliott, Sara Anne Gilstrap, Marie A. Guengerich, Robert A. Harris, Mary Helen Harutun, William J. Lebedeff, James R. Norman, Mary Bingham Porter, Lorraine Riley, Robert Sovereign.

The Division of Humanities and Fine Arts comprises those areas of learning in which the student is made aware of some of Mankind's greatest thought and noblest art. Through the study of literature, language, speech, art, music, and drama, the student enlarges his capacity to express himself and at the same time develops his ability to comprehend and appreciate the creative efforts of others.

The Division consists of five separate departments, distinct in that each is a specific discipline or area of study and yet related in that all are concerned with creative self-expression.

A. Viewed in relation to the total college curriculum, the functions of the departments comprising the Division (English, foreign languages, speech and drama, music, and art) are clearly two-fold, as follows:

1. General Education—Certain courses offered in every area of Humanities and Fine Arts are especially designed to make available to each student, regardless of his specialization, skills and understanding which greatly add to his personal development. (a) Through courses in English and speech he will increase his ability to read, write, and speak his own language and deepen his understanding of its literature. (b) Through courses in journalism he will learn techniques of reporting and styles of writing appropriate to today's mass media of communication. (c) Through courses in foreign languages he will learn to communicate with people of other nations and to appreciate the intellectual contributions of other cultures than his own. (d) Through participation in courses in public speaking and drama he will develop poise and power of oral expression, both persuasive and interpretive. (e) Through a guided study of the masterpieces of music and art he will acquire an enriched enjoyment of the world's treasures in those specialized areas of aesthetic expression.

2. Areas of Concentration—Detailed study, progressing from elementary through advanced courses, will give high level of competency in understanding and performing in disciplines which students elect as Areas of Concentration. (a) Programs in art, English, foreign languages, speech, drama, and music are necessary for the preparation of students planning to teach these subjects and form major areas for candidates for the Bachelor of Science in Education Degree. (b) A lesser concentration in several of these areas is required for a Bachelor of Science in Education Degree with a major in Elementary Education. (c) Students not planning to teach but desiring competency in one of these areas may elect to receive a Bachelor of Arts Degree, either for personal enrichment or as preparation for graduate study.

B. In addition to curricular functions, the Division exerts a strong influence upon the cultural life of the college and community.

1. The musical and dramatic performing organizations offer opportunities for participation to all qualified students (and in some instances to members of the larger community), thus serving as a valuable outlet for aesthetic self-expression.

2. The regular publication of the college newspaper not only provides practical experience for students interested in journalism but also serves the college community and alumni with timely and interesting reports of college activities.

3. Displays of art works by students and faculty in the Art Gallery and in exhibitions elsewhere are stimulating to the artistic community and are excellent media for improved public relations.

4. The services of members of the faculty of all departments (as speakers, critics, judges, and performers) to community organizations—whether professional, cultural, religious, or social—aid in acquainting the public with the programs of the college.

ART

The Department of Art offers courses which lead to the degree of Bachelor of Science in Education. The Department is housed in new, well-equipped quarters in the Fine Arts Complex, including four large studios and a spacious exhibition gallery.

COURSE REQUIREMENTS IN ART LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

Option A: Art as one of two teaching fields

Course Number	Course Title	Credit Hours
Art 101	Art Composition	3
Art 102	Introduction to Art	3
Art 103	Ceramics	3

Art 104	Drawing Techniques	3
Art 105	Introduction to Design	3
Art 203	Art Education	3
Art 204	Basic Form	3
Art 205	Painting	3
Art 301 and 302	Art History	6
Art 303	Drawing or	
Art 304	Watercolor	3
Art 305	Sculpture	3
		<hr/>
		36

A student wishing to be certified to teach art in both Elementary and Secondary schools should add to the above the following courses: Educ 201, Child Psychology.

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
Eng 102 and 103	6	Sp 101	3
Psyc 101	3	Hist 104	5
HPER 101 and 102	2	Biol 101	5
Eng 107 or 108	3	HPER 162	2
Art 101	3	Art 203	3
Art 102	3	Art 204	3
Art 103	3	Art 205	3
Art 104	3	SoSc 120 or 222	2-3
Art 105	3	Social Science General Education	
Math 103	3	Elective	3
		Electives	2-3
<hr/>		<hr/>	
32		31-33	
<i>Third Year</i>		<i>Fourth Year</i>	
Phys 125	5	Art	3
Art 301 and 302	6	Professional Education Block	15
Art 303 or 304	3	Electives	14-16
Educ 310	3		
Educ 330	5		
Electives	10-12		
<hr/>		<hr/>	
32-34		32-34	

ENGLISH

The Department of English offers courses in Composition and Literature leading to the Degrees of Bachelor of Arts and Bachelor of Science in Education. Offered in the English Department are several courses in Journalism and a course in Children's Literature, designed especially for Elementary Education majors.

Students interested in journalism as an extra-curricular activity work on the staff of **The Chart**, the college newspaper, which is published bi-weekly under the supervision of the English Department.

COURSES REQUIRED FOR THE MAJOR IN ENGLISH FOR THE BACHELOR OF ARTS DEGREE

Course Number	Course Title	Credit Hours
Engl 207 and 208	English Literature	6
Engl 305	Structure of American Eng.	3
Engl 310	Medieval Eng. Literature	3
Engl 320	Seventeenth Century English Literature or	
Engl 410	Literature of the English Renaissance	
Engl 331	The Romantic Period or	3
Engl 332	The Victorian Period or	3
Engl 307 or 308	American Literature or	
Engl 317	American Novel	3
Engl 312 or 313	Shakespeare	3
	Upper division English Elective	3
Total		27
Supporting courses (May include 9 hours English)		15
		42

Suggested order of study:

First Year

Eng 102 and 103, or Eng 104	
Composition	6
Biology 101	5
Hist 104 American History	5
Foreign Language	10
Hper 101 and 102 P. E.	2
Electives	4-6

Second Year

Eng 207 and 208 English Literature	6
Math 103 Intro to the Logic of Math	3
Phys 125 Fund of Physical Science	5
PoSc 120 or 222 State or U.S. Government	2-3
Sp 101 Speech Techniques	3
Engl 202 Exposition	3
Psyc 101 General Psychology	3
Hper 162 Health Education or P.E. Activities Course	2
Humanities General Education	3
Electives	3-4

32-34

31-34

Third Year

Engl 305 Structure of American English	3
Engl 331 The Romantic Period	3 ✓
Engl 320 Seventeenth Century English Literature	3 ✓
Engl 307 or 308 American Literature	3 ✓
Social Science General Education Elective	3
Upper Division English Elective ..	3
Electives	11-13

33-35

Fourth Year

Engl 312 or 313 Shakespeare	3
Engl 310 Medieval English Literature	3
Electives	26-28

32-34

COURSE REQUIREMENTS FOR ENGLISH AS A MAJOR AREA FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

OPTION A. English as one of two teaching fields

Course Number	Course Title	Credit Hours
Engl 102 and 103	Composition or	
Engl 104	Composition	6
Engl 207 and 208	English Literature	6
Engl 202	Exposition	3
Engl 305	Structure of American English	3
Engl 307 and 308	American Literature	6
Engl 312 or 313	Shakespeare	3
Engl 331	The Romantic Period or	
Engl 332	The Victorian Period or	
Engl 340	Twentieth Century Literature or	
Engl 420	Eighteenth Century English Literature	3
Engl 319	School Publications	2
Educ 465	Teaching of Reading in Secondary Schools	2
		<hr/> 34

OPTION B. English as one teaching field

All courses listed under Option A plus 6 to 12 additional
hours in English

40-46

JUNIOR HIGH CERTIFICATION ONLY

Course Number	Course Title	Credit Hours
Engl 207	Exposition or	
Engl 305	Structure of American English	3
Engl 307 and 308	American Literature	6
Educ 465	Teaching of Reading in Secondary Schools	2
	One Elective in Upper Division English ..	3
Two of the following:		
Engl 104 and 105	Masterpieces of World Literature	
Engl 207 and 208	English Literature	6
		<hr/> 20

Suggested order of study:

OPTION A: English as one of two teaching fields

First Year		Second Year	
Engl 102 and 103	Composition 6	Engl 207 and 208	English Literature 6
Biol 101	General Biology	Phys 125	Fundamentals of
Math 103	Intro to the Logic		Physical Science
	of Math	PoSc 120 or 222	State or U.S.
Sp 101	Speech Techniques		Government
Humanities	General Education	Psyc 101	General Psychology
	Elective (not Literature)	Engl 202	Exposition
			3

Hist 104	History of U.S.	5
Hper 101 and 102	P.E.	2
Electives	.....	5-7

32-34

Hper 152	Health Education or P.E. Activities Courses	2
	Social Science General Education Elective	3
Electives	.....	8-9

32-34

Third Year

Engl 305	Structure of American English	3
Engl 307 and 308	American Literature	6
Engl 332	The Victorian Period	3
Engl 319	School Publications	2
Educ 310	Educational Psychology	3
Educ 330	Teaching in the Secondary School	5
Electives	.....	10-12

32-34

Fourth Year

Engl 312	Shakespeare	3
Educ 465	Teaching of Reading in Secondary Schools	2
	Professional Educational Block	15
Electives	.....	10-12

32-34

OPTION B: English as one teaching field. Same as Option A but with 6 to 12 additional hours in English taken as electives.

FOREIGN LANGUAGES

The Department of Foreign Languages offer a full curriculum of courses in Spanish, with supporting courses in French and German. The Department offers the degree of Bachelor of Science in Education (in Spanish). A Language Laboratory is used in all Elementary and Intermediate courses.

COURSE REQUIREMENTS FOR SPANISH AS A MAJOR AREA FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

OPTION A: Spanish as one of two teaching fields.

Course Number	Course Title	Credit Hours
Span 101	Elementary Spanish	5*
Span 102	Intermediate Spanish	5*
Span 201	Spanish Composition and Conversation	3
Span 202	Readings in Spanish Literature	3
Span 303	Advanced Spanish Composition	3
Span 306	Survey of Spanish Literature	3
Span 307	Survey of Spanish Literature	3
Span 425	Nineteenth Century Spanish Novel	3
Span 435	Don Quixote	3

31

OPTION B: Spanish as one teaching field. Same as Option A plus 6 to 13 hours in foreign language

37-44

*A Spanish major who, because of his high-school record, is excused from taking either Spanish 101 or Spanish 102 (or both) or who has taken them for reduced credit, may take a reduced total of credit hours in Spanish. But he must accumulate a total of 24 hours of college credit in Spanish to achieve certification.

Suggested order of study:

OPTION A: Spanish as one of two teaching fields.

<i>First Year</i>		<i>Second Year</i>	
Engl 102 and 103 Composition	6	Span 201 Span. Com. and Conversation	3
Span 101 Elementary Spanish	5	Engl 207 or 208 English Literature	3
Span 102 Inter. Spanish	5	Art 102 Introduction to Art or	
Engl 106 or 107 Masterpieces of World Literature	3	Mus 150 Music Appreciation	3
Math 103 Introduction to the Logic of Math	3	Phys 125 Fund. of Phy. Sci.	5
Sp 101 Speech Techniques	3	Span 202 Readings in Sp. Literature	3
Biol 101 General Biology	5	Hist 104 History of U.S.	5
Hper 101 and 102 Phy Education	2	Pysc 101 General Psychology	3
		SoSc General Ed. El.	3
		PoSc 120 or 222 State or U.S. Government	2-3
		Hper 162 Health Ed or Phy Act Course	2
	32		32-33
<i>Third Year</i>		<i>Fourth Year</i>	
Span 303 Ad Span Comp.	3	Span 425 Nineteenth Century Span. Novel	3
Span 306 and 307 Survey of Spanish Literature	6	Span 435 Don Quixote	3
Educ 330 Teach in the Sec. School	5	Professional Education Block	15
Educ 310 Educational Psychology	3	Electives	9-10
Electives	15-17		
	32-34		30-31

SPEECH AND DRAMA

The Department of Speech and Drama offers a full curriculum of speech and drama courses leading to the Degree of Bachelor of Arts and Bachelor of Science in Education.

The Drama Department is housed in the Theatre Barn, uniquely designed to suit its needs. Three or four major productions are presented each school year, in which any students of the college may participate. A summer theatre program runs concurrent with the Summer Session. (See course description of Theatre 201.)

COURSE REQUIREMENTS FOR SPEECH AND DRAMA (PERFORMANCE) AS A MAJOR AREA FOR THE DEGREE BACHELOR OF ARTS

Course Number	Course Title	Credit Hours
Sp 104	Voice and Articulation	3
Sp 215	Oral Interpretation	3

Dr 142, 152, 242, 252	Theatre Laboratory	2-4
Dr 352	Play Production	3
Dr 332 and 333	Development of the Drama	6
Engl 312 and 313	Shakespeare	6
Dr 342	Beginning Acting	3
Dr 431	Children's Theatre	3
Dr 421	Styles in Acting and Interpretation	3
		<hr/>
		32-34
Supporting courses (may include 9 hours in speech and drama)		15
		<hr/>
		47-49

**COURSE REQUIREMENTS FOR THE BACHELOR OF ARTS
WHEN SPEECH AND DRAMA (TECHNICAL DRAMA)
IS THE MAJOR AREA**

Course Number	Course Title	Credit Hours
Sp 105	Voice and Articulation	3
Sp 215	Oral Interpretation	3
Dr 142, 152, 242, 252	Theatre Laboratory	2-4
Dr 352	Play Production	3
Dr 332 and 333	Development of the Drama	6
Engl 312 and 313	Shakespeare	6
Dr 361	Stage Costume and Design	3
Dr 441	Elementary Stage Design	3
Dr. 442	Advanced Stage Design	3
		<hr/>
		32-34
Supporting courses (may include 9 hours in Speech and Drama)		15
		<hr/>
		47-49

Suggested order of study:

<i>First Year</i>	<i>Second Year</i>
Engl 102 and 103 Composition 6	Sp 101 Speech Techniques
Sp 105 Voice and Articulation 3	or
Engl 106 or 107 Mast. of World Lit 3	Sp 201 Public Speaking 3
Human Gen. Ed. Electives 3	Hist 104 History of U.S. 5
Dr 142 and 152 Theatre Lab. 2	Phys 125 Fund. of Phy. Sci. 5
Hper 101 and 102 Phy. Ed. 2	Math 103 Intro. to Logic of Math 3
Foreign Language 10	Sp 215 Oral Inter. 3
Psyc 101 General Psychology 3	Engl 207 or 208 Eng. Lit. 3
	PoSc 120 or 222 State or U.S.
	Government 2-3
	Hper 152 Health Ed. or Phy.
	Ed. Act. Courses 2
	Biol 101 General Biology 5
	Electives 1-2

<i>Third Year</i>	
Dr 352 Play Production	3
Dr 322 and 333 Development of the Drama and Soc. Sci. Elective	6
Dr 362 Stage Costume and Design (Tech Dr. Major)	3
Dr 342 Beginning Acting (Perf Major)	3
Electives	17-19
<hr/>	
32-34	

<i>Fourth Year</i>	
Engl 312 and 313 Shakespeare	6
Dr 441 Elementary Stage Design ..	3
(Technical Dr. Major)	
Dr 431 Children's Theatre	3
(Perf Major)	
Dr 421 Styles in Acting and Interpretation (Perf Major)	3
Electives	20-22
<hr/>	
32-34	

COURSE REQUIREMENTS FOR SPEECH AND DRAMA AS A MAJOR AREA FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

OPTION A: Speech and Drama as one of two teaching fields.

Course Number	Course Title	Credit Hours
Sp 101	Speech Techniques or	3
Sp 201	Public Speaking	
Engl 202	Exposition or	
Engl 305	Structure of American English	3
Sp 105	Voice and Articulation	3
Sp 215	Oral Interpretation	3
Dr 142, 152, 242, 252	Theatre Laboratory	4
Dr 352	Play Production	3
Dr 372	Directing for the Stage	3
Dr 332 and 333	Development of the Drama	6
	One upper division Speech or Drama Elective	3
		<hr/>
		31

OPTION B: Speech and Drama as one teaching field

Same as under Option A plus 6-12 additional hours in Speech and Drama.

JUNIOR HIGH CERTIFICATION ONLY:

Course Number	Course Title	Credit Hours
Sp 101	Speech Techniques or	3
Sp 201	Public Speaking	
Sp 215	Oral Interpretation	3
Engl 202	Exposition or	3
Engl 305	Structure of American English	
Sp 105	Voice and Articulation	3
Dr 142, 153, 242, 252	Theatre Laboratory	2-4
Dr 353	Play Production	3
Dr 332 or 333	Development of the Drama	3
		<hr/>
		20-22

Suggested order of study:

OPTION A: Speech and Drama as one of two teaching fields.

<i>First Year</i>		<i>Second Year</i>	
Engl 102 and 103 Composition	2	Engl 207 English Literature	3
Sp 105 Voice and Articulation	3	Phys 125 Fund. of Phys. Sci	5
Dr 142 and 143 Theatre Lab	2	Psyc 101 General Psychology	3
Sp 101 Sp Techniques or		PoSc 120 or 222 State or	
Sp 201 Public Speaking	3	U.S. Government	2-3
Hist 104 History of U.S.	5	Engl 202 Exposition	3
Engl 106 Masterpieces of Lit	3	Sp 215 Oral Interpretation	3
Biol 101 General Biology	5	Art 102 Introduction to Art or	
Math 103 Introduction to the		Mus 150 Music Appreciation	3
Logic of Mathematics	3	Dr 242 and 252 Theatre Lab	2
Hper 101 and 102 Phy Ed	2	Social Science Gen. Ed. Elective ..	3
		Hper 152 Phys. Ed. Act. Course ..	2
		Electives	2-3
	32		32-33
<i>Third Year</i>		<i>Fourth Year</i>	
Educ 310 Educational Psych	3	Upper Division Speech & Drama	
Dr 352 Play Production	3	Elective	3
Dr 332 and 333 Development of		Professional Education Block	15
the Drama	6	Electives	14-15
Educ 330 Methods of Teaching in the			
Secondary School	5		
Dr 372 Directing for the Stage	3		
Electives	13-15		
	32-34		32-33

OPTION B: Speech and Drama as one teaching field: same as Option A but with 6 to 12 additional hours in Speech and Drama.

MUSIC

The Department of Music offers courses leading to the Degrees of Bachelor of Arts and Bachelor of Science in Education (in either Vocal or Instrumental Music). The performing ensembles of the music department include the College Chorale, the College-Community Symphony Orchestra, the Concert Band, the Lab Band, the Vocal Ensemble, and the College-Community Choral Society. In addition to frequent performances by these groups, student recitals are held regularly.

The Department is housed in the Music Building, a part of the Fine Arts Complex, containing classrooms, rehearsal rooms, studios, and practice rooms.

COURSE REQUIREMENTS FOR A MUSIC MAJOR FOR THE BACHELOR OF ARTS DEGREE

Course Number	Course Title	Credit Hours
Mus 121, 122, 221 and 222	Music Theory	12
Mus 323	Form and Analysis	3
Mus 322	Orchestration	2

Mus 350 and 351	History of Music	6
	Applied Music Major, lower div.	4
	Applied Music Major, upper div.	6
	Ensemble	4
		<hr/>
		37
Supporting courses (May include 9 hours music, but excluding Music Ensemble)		15
		<hr/>
		52

The student must take a Piano Proficiency Examination during the second semester of his sophomore year. Should he fail the examination, he must take piano for no credit and repeat the examination until he has passed it.

The student shall present a recital during his senior year.

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
Engl 102 and 103 Composition	6	Mus 221 and 222 Music Theory ..	6
Sp 101 Speech Techniques	3	Math 103 Intro to the Logic of Mathematics	3
Mus 121 and 122 Music Theory ..	6	Hist 104 History of U.S.	5
Music Ensemble	2	Music Ensemble	2
Biol 101 General Biology	5	PoSc 120 or 222 State or U.S. Government	2-3
Phys 125 Fund. of Phy. Sc.	5	Humanities Gen. Ed. Elective	3
Hper 101 and 102 Phy. Ed.	2	Hper 162 Health Ed or Phy Ed. Act. Cour.	2
Applied Music, Major	2	Music Ensemble	2
Engl 106 or 107 Masterpieces of World Literature	3	Applied Music, Major	2
	<hr/>	Electives	3-5
	34		<hr/>
			31-34
<i>Third Year</i>		<i>Fourth Year</i>	
Mus 323 Form and Analysis	3	Mus 322 Orchestration	2
Mus 350 and 351 History of Music (Counts as General Education Humanities)	6	Applied Music, Major	4
Applied Music, Major	4	Recital	0
Social Science General Education Elective	3	Electives	26-28
Electives	6-8		<hr/>
	<hr/>		32-34
	32-34		

COURSE REQUIREMENTS FOR MUSIC (INSTRUMENTAL) AS A MAJOR AREA FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

OPTION B: Music (Instrumental as one teaching field.

Course Number	Course Title	Credit Hours
Mus 121, 122, 221, and 222	Music Theory	12
Mus 323	Orchestration	2
Mus 350 and 351	History of Music	6
Mus 130 and 131	Brass Techniques	2
Mus 132 and 133	Strings Techniques	2
Mus 134 and 135	Woodwind Techniques	2
Mus 136	Choral Conducting Techniques	1
Mus 137	Instrumental Conducting Tech.	1
Mus 138	Percussion Techniques	1
Mus 139	Marching Band Techniques	1
	Applied Music Major, junior div.	4
	Applied Music Major, senior div.	6
	Applied Music, Piano	2
	Applied Music, Minor	2
	Large Instrumental Ensemble	4
		<hr/>
		48

The student must take a Piano Proficiency Examination during the second semester of his sophomore year. Should he fail the examination, he must take piano for no credit and repeat the examination until he has passed it.

The student must perform in a large ensemble during every semester of his residency.

The student must meet department requirements for recital attendance and recital appearance, including a senior recital or joint-recital.

Students wishing to be certified to teach in both Secondary and Elementary Schools may do so by adding the following courses:

Mus 260	Music for the Elementary School
Educ 201	Child Psychology

Suggested order of study:

First Year	Second Year
Engl 102 and 103 Composition 6	Mus 221 and 222 Music Theory .. 6
Mus 121 and 122 Music Theory .. 6	Math 103 Intro to the Logic
Psyc 101 General Psychology 3	of Math 3
Art 102 Introduction to Art 3	Mus 130 and 131 Brass Techniques 2
Hist 104 History of U.S. 5	Mus 136 Choral Conducting
Engl 106 or 107 Masterpieces	Techniques 1
of World Literature 3	Mus 137 Instrumental Conducting
Mus 132 and 133 String Techniques 2	Techniques 1
Music Ensemble 2	Sp 101 Speech Techniques 3

Applied Music, Major	2
Applied Music, Piano	2
Hper 101 and 102 Physical Ed.	2

34

Hper 162 Health Education or Physical Education Activities Course	2
Biol 101 General Biology	5
Applied Music, Major	2
Applied Music, Minor	2
Music Ensemble	2
PoSc 120 or 222 State or United States Government	2-3
Electives	2

32-33

Third Year

Mus 350 and 351 History of Music (Counts as General Education Humanities)	6
Mus 322 Orchestration	2
Educ 310 Educational Psychology	3
Phys 125 Fundamentals of Physical Science	5
Social Science General Education Elective	3
Applied Music, Major	2
Applied Music, Minor	2
Educ 330 Teaching in the Secondary Schools	4-6
Electives	4-6

32-34

Fourth Year

Applied Music, Major	2
Professional Education Block	15
Electives	13-14

30-31

COURSE REQUIREMENTS FOR MUSIC (VOCAL) AS A MAJOR AREA FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

OPTION B: Music (vocal) as one teaching field.

Course Number	Course Title	Credit Hours
Mus 121, 122, 221, 222	Music Theory	12
Mus 322	Form and Analysis	3
Mus 350 and 351	History of Music	6
Mus 136	Choral Conducting Techniques	1
Mus 137	Instrumental Conducting Techniques	1
	Applied Music, Voice, junior division	4
	Applied Music, Voice, senior division	6
	Applied Music, Piano	2
	Applied Music, Minor	4
	Large Vocal Ensemble	4
		<hr/> 43

The student must take a Piano Proficiency Examination during the second semester of his sophomore year. Should he fail the examination, he must take piano for no credit and repeat the examination until he has passed it.

The student must perform in a large vocal ensemble during every semester of his residency.

The student must meet departmental requirements for recital attendance and recital appearance, including a senior recital or joint-recital.

Students wishing to be certified to teach in both Secondary and Elementary Schools may do so by adding to the above the following courses:

Mus 260	Music for the Elementary School
Educ 201	Child Psychology

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
Engl 102 and 103 Composition	6	Mus 221 and 222 Music Theory ..	6
Mus 121 and 122 Music Theory ..	6	Math 103 Intro to the Logic	
Psyc 101 General Psychology	3	of Math	3
Art 102 Introduction to Art	3	Phys 125 Fundamentals of	
Hist 104 History of U.S.	5	Physical Science	5
Engl 106 or 107 Masterpieces of		Sp 101 Speech Techniques	3
World Literature	3	Hper 162 Health Education or	
Music Ensemble	2	Physical Education Activities	
Applied Music, Major	2	Course	2
Applied Music, Piano	2	Biol 101 General Biology	5
Hper 101 and 102 Physical		Mus 136 Choral Conducting	
Education	2	Techniques	1
		Mus 137 Instrumental	
		Conducting Techniques	1
		Applied Music, Major	2
		Applied Music, Minor	2
		PoSc 120 or 222 State or	
		United States Government	2-3
		Music Ensemble	2
	34		34-35
<i>Third Year</i>		<i>Fourth Year</i>	
Mus 323 Form and Analysis	3	Applied Music, Major	2
Mus 350 and 351 History of Music		Professional Education Block	15
(Counts as General Education		Electives	13-14
Humanities)	6		
Social Science General			
Education Elective	3		
Applied Music, Major	4		
Applied Music, Minor	2		
Educ 330 Teaching in			
Secondary School	5		
Elective	7-8		
	33-34		30-31

DIVISION OF SCIENCE AND MATHEMATICS

Chairman — Dr. James J. Altendorf

Biology: David Bingman, Wayne Habermehl, Orty Orr

Chemistry: James Altendorf, Charles Gosch, Harrison Kash, Eula Ratekin

Drafting: V. L. Anderson

Geology: Staff

Mathematics: Paul Jensen, Pamela Kendrick, Larry Martin,
Martha McCormick

Physics: Charles Gosch, Arthur Strobel, Glenn Smith

The Division of Science and Mathematics supports the objectives and purposes of the College by: (1) offering courses in General Education, Semi-Professional and Technical, and Professional areas; (2) providing experiences whereby a student can better interpret the universe in which he lives; and (3) preparing students to teach in the schools of Missouri.

The Division consists of the departments of biology, chemistry, drafting, geology, mathematics, and physics.

The Division offers programs of study leading to the following degrees: (1) Bachelor of Science in biology, chemistry, and mathematics; (2) Bachelor of Science in Education with majors in biology, chemistry, mathematics, and physics.

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

A major in biology in the Bachelor of Science curriculum includes 37 to 39 hour of biology. This consists of a biology core and either a botany or zoology emphasis. In addition, the major requires 10 hours of chemistry, to include both organic and inorganic chemistry, and 5 hours of algebra and trigonometry or its equivalent. The student is strongly urged to take 8 hours of physics as an elective.

Biology Core:

General Zoology 120	5
General Botany 110	5
Microbiology 210	5
Genetics 200	3
	—
	18

Zoology Emphasis:	
Comparative Chordate Anatomy 320	5
Animal Physiology 420	5
Seminar 430	1
	—
	11

Botany Emphasis:	
Taxonomy of Flowering Plants 310	4
Human Anatomy & Physiology 220	5
Seminar 430	1
	—
	10

Don Quixote

Zoology Electives: At least two of the following:	
General Ecology 409	4
Embryology 427	5
Vertebrate Zoology 425	5
Invertebrate Zoology 321	5
Taxonomy of Flowering Plants 310	4

Botany Electives: At least two of the following:	
Plant Anatomy 410	5
Plant Morphology 411	5
Plant Physiology 311	5
General Ecology 409	4

Suggested order of study: (Emphasis in botany)

First Year	
Biol 110 General Botany	5
Biol 120 General Zoology	5
Chem 115 General Chemistry I	5
Chem 153 General Chemistry II	3
Math 115 College Algebra and Trigonometry	5
Engl 102 and 103 Composition	6
Soci 140 General Sociology	3
HPER 101 and 102 Intro to Physical Activities	2
	—
	34

Second Year	
Biol 200 Genetics	3
Biol 210 Microbiology	5
Hist 104 History of U.S.	5
Sp 101 Speech Techniques	3
PoSc 120 U.S. Government	3
Psyc 101 General Psychology	3
Art 102 Introduction to Art	3
Engl 207 English Literature	3
Physical Education electives	2
General electives	3
	—
	33

Third Year	
Biol 220 Human Anatomy and Physiology	5
Biol 310 Taxonomy of Flow. Plants	4
Biol 411 Plant Morphology	5
Phys 155 Elem. College Physics I	5
Phys 163 Elem. College Physics II	3
Chem 315 Organic Chemistry	5
Engl 308 American Literature	3
Electives	3
	—
	33

Fourth Year	
Biol 409 General Ecology	4
Biol 410 Plant Anatomy	5
Biol 430 Seminar	1
*Senior division electives	13
Electives	7
	—
	30

*Suggested senior division electives:

Senior division literature	3-6
Senior division biology with lab	5
Soci 320 Sociology of Religion	3
Hist 313 Mediterranean World	3
Biol 300 History of Biology	2
Biol 431 Problems in Biology	1-3

Suggested order of study: (Emphasis in zoology)

<i>First Year</i>		<i>Second Year</i>	
Biol 110 General Botany	5	Biol 200 Genetics	3
Biol 120 General Zoology	5	Biol 210 Microbiology	5
Chem 115 General Chemistry I	5	Hist 104 History of U.S.	5
Chem 153 General Chemistry II	3	Sp 101 Speech Techniques	3
Math 115 College Algebra and Trigonometry	5	PoSc 120 U.S. Government	3
Engl 102 and 103 Composition	6	Pysc 101 General Psychology	3
Soci 140 General Sociology	3	Art 102 Introduction to Art	3
HPER 101 and 102 Introduction to Physical Activities	2	Physical Education electives	2
	34	General electives	3
			33
<i>Third Year</i>		<i>Fourth Year</i>	
Biol 320 Comparative Anatomy	5	Biol 420 Animal Physiology	5
Biol 425 Vertebrate Zoology	5	Biol 427 Embryology	5
Phys 155 Elem. College Physics I ..	5	Biol 430 Seminar	1
Phys 163 Elem. College Physics II ..	3	*Senior division electives	11
Chem 315 Organic Chemistry	5	Electives	8
Engl 308 American Literature	3		
Electives	6		
	32		30

*Suggested senior division electives:

Senior division literature	3-6
Senior division biology with lab	5
Hist 313 Mediterranean World	3
Biol 300 History of Biology	2
Biol 431 Problems in Biology	1-3
Art 301 Art History	3

**BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A
MAJOR IN BIOLOGY (OPTION A)**

A major in biology in the Bachelor of Science in Education curriculum, second teaching field, includes 22 semester hours of biology and other hours as specified below:

Biol 110 General Botany	5
Biol 120 General Zoology	5
Chem 115 General Chemistry I	5
College Mathematics elective	3
Senior division electives in Biology	12
Electives in Science	5
	35

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN BIOLOGY (OPTION B)

A major in biology in the Bachelor of Science in Education curriculum, single teaching field, includes 30 semester hours of biology and other hours as specified below:

Biol 110 General Botany	5
Biol 120 General Zoology	5
Biol 220 Human Anatomy and Physiology	5
Math 115 College Algebra & Trigonometry	5
Chemistry electives to include one course in organic chemistry	10
Senior division electives in Biology	12
Electives in Biology	3
	<hr/>
	45

NOTE: Biol 101 General Biology is a general education course and does not count toward any baccalaureate degree in biology.

Suggested order of study: (Option B)

<i>First Year</i>		<i>Second Year</i>	
Biol 110 General Botany	5	Engl 207 and 208 English Literature 6	3
Biol 120 General Zoology	5	Sp 101 Speech Techniques	3
Hist 104 U.S. History	5	Chem 115 General Chemistry I	5
Engl 102 and 103 Composition	6	Chem 153 General Chemistry II	3
Math 115 College Algebra and Trigonometry	5	Phys 155 Elem. College Physics I ..	5
HPER 101 and 102 Introduction to Physical Activities	2	Phys 163 Elem. College Physics II ..	3
Electives	4-6	HPER 162 Health Education	2
	<hr/>	*Electives in Biology	3
	32-34	Soci 140 General Sociology	3
			<hr/>
			33
<i>Third Year</i>		<i>Fourth Year</i>	
Biol 220 Human Anatomy and Physiology	5	Chem 315 Organic Chemistry	5
PoSc 120 U.S. Government	3	**Senior Division electives in Biol	6
Psyc 310 Educational Psychology ..	3	***Electives	6-8
Art 102 Introduction to Art	3	Educational Professional Semester	15
Educ 330 Teaching Secondary School (Biol 330)	5		<hr/>
**Senior division electives in Biol	6		
***Electives	6-8		
	<hr/>		
	31-33		32-34

*Suggested electives in biology

Biol 200 Genetics	3
Biol 210 Microbiology	5

****Suggested senior division electives in biology**

Biol 310 Taxonomy	4
Biol 425 Vertebrate Zoology	5

*****At least 5 hours of general electives must be senior division.**

Suggested senior division general electives:

Senior division Literature	3-6
Soci 320 Sociology of Religion	3
Hist 313 Mediterranean World	3

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY

A major in Chemistry in the Bachelor of Science curriculum includes 34 semester hours of Chemistry and other hours as specified below:

Course Number	Course Title	Credit Hours
Chem 115	General Chemistry I	5
Chem 153	General Chemistry II	3
Chem 163	Qualitative Analysis	3
Chem 205	Quantitative Analysis	5
Chem 315	Organic Chemistry I	5
Chem 355	Organic Chemistry II	5
Chem 405	Physical Chemistry I	5
	Senior division electives in chemistry	3
Phys 255	General Physics I	5
Phys 265	General Physics II	5
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5
		54

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN CHEMISTRY (OPTION A)

A major in Chemistry in the Bachelor of Science in Education curriculum, second teaching field, includes 28 semester hours of Chemistry and other hours as specified below:

Course Number	Course Title	Credit Hours
Chem 115	General Chemistry I	5
Chem 153	General Chemistry II	3
Chem 163	Qualitative Analysis	3
Chem 205	Quantitative Analysis	5
Chem 315	Organic Chemistry I	5

*no suggested
study*

Chem 355	Organic Chemistry II	5
	Senior division electives in chemistry	2
Math 115	College Algebra and Trigonometry (or the equivalent)	5

33

Suggested order of study: *in the BS*

First Year

Chem 115 General Chemistry I	5
Chem 153 General Chemistry II	3
Chem 163 Qualitative Analysis	3
Engl 102 and 103 Composition	6
Math 115 College Algebra & Trig	5
Math 145 Calculus w/Anal Geom I	5
HPER 101 and 102 Intro. to	
Physical Activities	2
Biol 101 General Biology	5

34

Second Year

Chem 205 Quantitative Analysis ..	5
Math 255 Calculus w/Anal Geom II	5
Math 265 Calculus w/Anal	
Geometry III	5
Hist 104 History of U.S.	5
Sp 101 Speech Techniques	3
Psyc 101 General Psychology	3
HPER 162 Health Education	2
Electives	2-4

30-32

Third Year

Chem 315 Organic Chemistry I	5
Chem 355 Organic Chemistry II	5
Phys 255 General Physics I	5
Phys 265 General Physics II	5
Senior division History of Geo.	3
PoSc 324 Comparative Government	3
English or World Literature	3
Electives	1-3

30-32

Fourth Year

Chem 405 Physical Chemistry I	5
Chem 453 Physical Chemistry II ..	3
Chem 462 Physical Chem. II Lab.	2
Phys 323 Atomic & Nuclear Physics	3
Senior Division Literature	6
Senior Division Electives	5
Electives	6-8

30-32

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN CHEMISTRY (OPTION B)

A major in Chemistry in the Bachelor of Science in Education curriculum, single teaching field, includes 26 semester hours of Chemistry and other hours as specified below:

Course Number	Course Title	Credit Hours
Chem 115	General Chemistry I	5
Chem 153	General Chemistry II	3
Chem 163	Qualitative Analysis	3
Chem 205	Quantitative Analysis	5
Chem 315	Organic Chemistry I	5
Chem 355	Organic Chemistry II (or	
Chem 405	Physical Chemistry I)	5
	Senior division electives in chemistry	4
Math 115	College Algebra and Trig	5
Math 145	Calculus with Analytic Geom I	5
Math 255	Calculus with Analytic Geom II	5
Phys 255	General Physics I	5
		50

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
Chem 115	General Chemistry I 5	Chem 205	Quantitative Analysis .. 5
Chem 153	General Chemistry II 3	Math 255	Calculus w/Analytic
Chem 163	Qualitative Analysis 3		Geometry II
Math 115	College Algebra & Trig 5		Math 263 Calculus w/Analytic
Math 145	Calculus w/Analytic		Geometry III
	Geometry I		Sp 101 Speech Techniques
Engl 102 and 103	Composition 6		Hist 104 History of the U.S. 5
HPER 101	Introduction to		Psyc 101 General Psychology
	Physical Activities		Biol 101 General Biology
Electives	..... 2-4		HPER 162 Health Education 2
31-33		33	
<i>Third Year</i>		<i>Fourth Year</i>	
Chem 315	Organic Chemistry I 5	Chem 355	Organic Chemistry II .. 5
Phys 255	General Physics I		or
Phys 265	General Physics II	Chem 405	Physical Chemistry I
PoSc 324	Comparative Gov. 3		Art 301 Art History
Senior Division Literature	..... 6		Senior division elective History or
Educ 330	Teaching Secondary		Geography
	School		Education Professional
Psyc 310	Educational Psychology 3		Semester (2)
32			Electives
			5-7
		32-33	

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN MATHEMATICS

A major in Mathematics in the Bachelor of Science curriculum includes 36 semester hours of Mathematics and other hours as specified below:

Course Number	Course Title	Credit Hours
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5
Math 265	Calculus with Analytic Geometry III	5
Math 303	Fundamentals of Mathematical Thought	3
	*Senior division electives in mathematics	18
	Electives in Physical Science	18
		54

Suggested order of study:

First Year		Second Year	
Math 145, 255 Calculus w/Analytic Geometry I, II	10	Math 265 Calculus w/Analytic Geometry III	5
Engl 102 and 103	6	Phys 265 General Physics II	5
Chem 115 and 153 General Chemistry I, II	8	Math 323 Differential Equations ..	3
Math 101 Slide Rule	1	Phys 273 Statics	3
PoSc 120 or 222	2-3	Phys 255 General Physics I	5
Biol 101 General Biology	5	Hist 104 History of the U.S.	5
HPER 101 and 102	2	Psc 101 General Psychology	3
	<hr/> 34-35		<hr/> 32
Third Year		Fourth Year	
Math 303 Fundamentals of Mathematical Thought	3	Math 423, 433 Advanced Calculus I, II	6
Math 353 Linear Algebra	3	HPER 162 Health Education	2
Math 343 Abstract Algebra	3	Math 363 Probability and Statistics	3
Phys 333 Analytical Mechanics	3	Art 301 Art History	3
Hist 313 Mediterranean World	3	Senior Division Elective	3
Math Elective (300 or above)	3	Electives	15
Senior Division Literature	6		
	<hr/> 32		<hr/> 32

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN MATHEMATICS (OPTION A)

A major in Mathematics in the Bachelor of Science in Education curriculum, second teaching field, includes 27 semester hours of Mathematics and other hours as specified below:

Course Number	Course Title	Credit Hours
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5

Math 265	Calculus with Analytic Geometry III	5
Math 303	Fundamentals of Mathematical Thought	3
**Senior Division electives in Mathematics		9
		—
		27

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS (OPTION B)

*A major in Mathematics in the Bachelor of Science in Education curriculum, single teaching field, includes 30 semester hours of Mathematics and other hours as specified below:

Course Number	Course Title	Credit Hours
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5
Math 265	Calculus with Analytic Geometry III	5
Math 303	Fundamentals of Mathematical Thought	3
**Senior division electives in Mathematics		12
Electives in Physical Science		10
		—
		40

*Course must be approved by the student's major advisor.

**One course each in algebra, geometry, and probability and statistics are strongly recommended.

Suggested order of study:

First Year

*Math 115 Algebra & Trigonometry	5
Math 145 Calculus with Analytic Geometry I	5
Engl 102 and 103 Composition	6
Chem 115 General Chemistry I	5
Chem 153 General Chemistry II	3
Hist 104 History of the U.S.	5
PoSc 120 or 222	2-3
HPER 101 and 102 Introduction to Physical Activity	2

33-34

Second Year

Math 255 Calculus with Analytic Geometry	5
Math 265 Calculus with Analytic Geometry III	5
Phys 255 General Physics I	5
Phys 265 General Physics II	5
Psyc 101 General Psychology	3
HPER 162 Health Education	2
Sp 101 or 201	3
Soci 140 General Sociology	3

31

Third Year

Math 303 Fundamentals of Mathematical Thought	3
Math 333 Geometry	3
Math 343 Abstract Algebra	3
Psyc 310 Educational Psychology	3
Math 330 Teaching in the Secondary School (Educ 300)	5
Biol 101 General Biology	5

Fourth Year

Education Professional Semester	15
Math 363 Probability & Statistics	3
Senior Division Electives in Mathematics	3
Senior Division Electives	3
Electives	8

Two of the following:

Engl 106, 107, 207, 208 6
Electives 3

31

32

*Four units of High School Mathematics and a satisfactory score on Math Placement Test will allow a student to by-pass Math 115.

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN PHYSICS (OPTION A)

A major in Physics in the Bachelor of Science in Education curriculum, second teaching field, includes 28 semester hours of Physics and other hours as specified below:

Course Number	Course Title	Credit Hours
Phys 255	General Physics I	5
Phys 265	General Physics II	5
Phys 323	Atomic and Nuclear Physics	3
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5
Math 265	Calculus with Analytic Geometry III	5
	Senior division electives in Physics	6
	Physics laboratory 373 or 383	3
	Electives in Science	3
		40

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH A MAJOR IN PHYSICS (OPTION B)

A major in Physics in the Bachelor of Science in Education curriculum, single teaching field, includes 28 semester hours of Physics and other hours as specified below:

Course Number	Course Title	Credit Hours
Phys 255	General Physics I	5
Phys 265	General Physics II	5
Phys 323	Atomic and Nuclear Physics	3
Phys 333	Analytical Mechanics	3
Phys 353	Electricity and Magnetism	3
Phys 373	Intermediate Physics Laboratory	3
Phys 383	Modern Physics Laboratory	3
Math 145	Calculus with Analytic Geometry I	5
Math 255	Calculus with Analytic Geometry II	5
Math 365	Calculus with Analytic Geometry III	5
Math 323	Differential Equations	3

Elective in Physics	3
	<hr/> 46

NOTE: The following courses do not count toward a physics major but may be used for the total college hours necessary for graduation.

Course Number	Course Title	Credit Hours
Phys 125	Fundamentals of Physical Science	5
Phys 155	Elementary College Physics I	5
Phys 163	Elementary College Physics II	3
Phys 273	Statics	3
Phys 283	Fundamentals of Electrical Engineering	3

Suggested order of study:

First Year		Second Year	
Math 115 Algebra & Trigonometry	5	Math 255 Calculus with Analytic Geometry II	5
Math 145 Calculus with Analytic Geometry I	5	Math 265 Calculus with Analytic Geometry III	5
Engl 102 and 103 Composition	6	Phys 255 General Physics I	5
Chem 115 General Chemistry I	5	Phys 265 General Physics II	5
Chem 153 General Chemistry II	3	Psyc 101 General Psychology	3
Hist 104 History of the U.S.	5	Sp 101 or 201	3
PoSc 120 or 222	2-3	Econ 202 Principles of Economics	3
HPER 101 and 102	2	Biol 101 General Biology	5
	33-34		34

Third Year		Fourth Year	
Phys 323 Atomic & Nuclear Physics	3	Education Professional	
Phys 333 Analytical Mechanics	3	Semester (2)	15
Phys 343 Heat & Thermodynamics	3	Phys 353 Electricity & Magnetism	3
Phys 373 Intermediate Physics Lab	3	Phys 363 Physical Optics	3
Math 323 Differential Equations	3	Phys 383 Modern Physics Lab.	3
HPER 162 Health Education	2	Electives	6
Psyc 310 Educational Psychology	3		
Educ 330 Teaching in the			
Secondary Schools	5		
Electives	7		
	<hr/>		<hr/>
	33		30

DIVISION OF SOCIAL SCIENCE

Chairman: Mr. Harry Gockel

History: Tommy Holman, Julie Hughes, C. H. Rogers, Harry C. Gockel.

Political Science: Annette St. Clair, Gale Renner.

Sociology: Forrest Kellogg, John Eli.

The Division of Social Sciences has as its purpose to provide the student with the skill, attitudes, and understanding necessary to give his life direction and meaning; to encourage the student to think and evaluate the broader issues that he will encounter in life; and to acquire new interests that he may pursue for the sheer pleasure of learning.

The division has as its special concern the preparation of social science teachers for the schools of Missouri and the undergraduate education of students who are planning careers in government and community service.

The objectives of the division are:

1. To prepare students for certification as social science teachers in the elementary and secondary schools.
2. To provide the undergraduate education needed for students desiring to continue graduate work in history or political sciences.
3. To provide a program of the extra-curricular activities that will aid in the introduction of the student to his future role in serving his community and nation.

BACHELOR OF ARTS DEGREE

This degree is intended for students who plan to continue their education beyond the bachelor's level and/or who plan to enter government or community service. A student may select a major in history or political science.

COURSE REQUIREMENTS FOR A MAJOR IN HISTORY

Course Number	Course Title	Credit Hours
Hist 200	Western Civilization	5
Hist 104	History of the United States	5
Hist 203	Modern European History	3
Hist 314	Ancient History	3
Hist 420	Far Eastern History	5
PoSc 324	Comparative Government	3
PoSc 320	American Presidency	3
Phil 280	Introduction to Philosophy	3
Geog 220	Regions and Nations	3
	Upper division electives in U.S. History	6

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
English 102	3	History 200 Western Civilization	5
Math 103 or 113	3	Phys 125 Fundamentals of	
Psyc 101 General Psychology	3	Physical Science	5
HPER 101 Introduction to P.E. ..	1	Sp 101 or 201	3
Hist 104 History of U.S.	5	HPER 162 Health Education	2
Biol 100 General Biology	5	Phil 280 Introduction to	
HPER 102 Intro to P.E.	1	Philosophy	3
Eng 103 Comp.	3	Geog 220 Regions & Nations	3
Foreign Language	5	Art 105 Art Appreciation	3
Electives	3	Foreign Language	5
		Electives	3-5
	32		32-34
<i>Third Year</i>		<i>Fourth Year</i>	
Hist 203-204 Mod. European Hist. ..		PoSc 324 Comparative Government ..	3
1815 to Present	6	Hist 319 Econ Hist of U.S.	3
Hist 300 Soc. & Intell. Hist.		PoSc 320 Am Presidency	3
to 1877	3	Hist 420 Far East History	5
Hist 314 Ancient World	3	Elective (Supporting Area)	3-6
Eng 207-208 English Lit	3	Upper Division Electives	6
Hist 301 Soc. & Intell Hist.	3	Electives	6-9
Hist 313 Medt. World	3		
Upper Division Electives			
(Supporting Area)	9		
Electives	3		
	33		32

COURSE REQUIREMENTS FOR A MAJOR IN POLITICAL SCIENCE

Course Number	Course Title	Credit Hours
Hist 200	Western Civilization	5
PoSc 222	State and Local Government	2
PoSc 120	U.S. Government	3
PoSc 224	Current World Affairs	3
PoSc 318	Political Parties	3
PoSc 332	Municipal Government	3
PoSc 324	Comparative Government	3
PoSc 320	American Presidency	3
PoSc 428	Public Administration	3
Phil 280	Introduction to Philosophy	3
Geog 220	Regions and Nations	3
Soci 140	General Sociology	3
Econ 202	Principles of Economics	3
	Upper Division electives in U.S. History	6
	Electives in other Social Sciences	4
		50

Suggested order of study:

<i>First Year</i>	
PoSc 120 U.S. Government	3
Sp 101 or 201	3
Eng 102 Composition	3
Math 103 or 113	3
HPER Intro to P.E.	1
PoSc 222 State Government	2
Eng 103 Composition	3
Hist 104 U.S. History	5
Biol 101 General Biology	5
HPER 102 Intro to P.E.	1
Electives	3-5

32-34

<i>Third Year</i>	
PoSc 332 Municipal Government ..	3
PoSc 224 Cur. World Affairs	3
Econ 201 General Economics	3
Econ 202 Prin. of Economics	3
PoSc 318 Political Parties	3
PoSc 320 Am. Presidency	3
Upper Division Electives	8-9
Electives	6

32-33

<i>Second Year</i>	
Geog 220 Regions & Nations	3
HPER 162 Health Education	2
Hist 200 Western Civilization	5
Phys 125 Fund. of Phys. Sci.	5
Psyc 101 General Psychology	3
Soci 140 General Sociology	3
Phil 280 Intro to Phil	3
Eng 106 or 107 or 207 or 208	6
PoSc 128 United Nations	1
Electives	0-3

31-34

<i>Fourth Year</i>	
PoSc 324 Comparative Govt.	3
Hist 306 Soc. Intell to 1877	3
Hist 301 Soc. Intell. 1877 to present	3
PoSc 428 Public Administration	3
Upper Division Electives	11-12
Electives	8-9

31-33

BACHELOR OF SCIENCE IN EDUCATION DEGREE (SOCIAL SCIENCE)

This degree is intended for students desiring to become teachers at the secondary school level. To obtain certification to teach in Missouri at the secondary level, a student must complete one of the two programs outlined below. One program places emphasis on history, the other on political science. Both programs are designed to fit Option B of the requirements for the Bachelor of Science in Education degree. (No major is offered under Option A in Social Science.)

COURSE REQUIREMENTS WITH EMPHASIS IN HISTORY (OPTION B)

Course Number	Course Title	Credit Hours
PoSc 120	U. S. Government	3
PoSc 222	State and Local Government	2
Hist 200	Western Civilization	5
Hist 313	Mediterranean World	3
Hist 420	Far East History	5
*Econ 201-202	Principles of Economics	6
Geog 220	Regions and Nations	3
Geog 230	Latin America	3
Soci 140	General Sociology	3
Soci 340	Social Stratification	3
Hist 300	Social and Intellectual History of U.S. to 1877	3
Hist 301	Social and Intellectual History of U.S. from 1877 ..	3
Hist 330	Teaching Social Science in Secondary School	2
	Upper division elective in Pol Science	3
		<hr/> 47

*History 319—Economic History of U.S., may be substituted for either economics course.

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
PoSc 120 U.S. Government	3	Sp 101 Speech Tech	3
Hist 104 History of U.S.	5	Biol 101 General Biology	5
Soci 140 General Sociology	3	HPER 162 Health Education	2
Engl 102 and 103 Composition	6	Hist 200 Western Civilization	5
Math 103 or 113	3	Geog 200 Regions and Nations	3
Psyc 101 General Psychology	3	Phil 220 Introduction to Phil	3
Engl 106 or 107 World Literature ..	3	PoSc 222 State Government	2
Art 102 Introduction to Art	3	Phys 125 Fundamentals of	
HPER 101 and 102 Intro to P.E. ...	2	Physical Science	5
Electives	1-3	Electives	4-5
	<hr/> 32-34		<hr/> 32-33
<i>Third Year</i>		<i>Fourth Year</i>	
Geog 230 Latin America	3	PoSc 340 Social Strat.	3
Econ 201-202 Prin. of Econ.	6	Hist 420 Far East History	5
Hist 300 Soc Intell Hist U.S.	3	Upper Division Elective in Pol	
Hist 301 Soc Intell Hist U.S. 1877 ..	3	Science	3
Hist 313 Medt. World	3	Electives	5-7
Psyc 310 Educational Psyc	3	Educ. Professional Semester (2) ..	15
Educ 330 Teaching Sec. School	5		
(Hist 330 is included)			
Electives	6-8		
	<hr/> 32-34		<hr/> 31-33

COURSE REQUIREMENTS WITH EMPHASIS IN POLITICAL SCIENCE—(OPTION B)

Course Number	Course Title	Credit Hours
Hist 200	Western Civilization	5
PoSc 120	U.S. Government	3
PoSc 222	State and Local Government	2
Hist 204	Modern European History	3
PoSc 318	Political Parties	3
PoSc 424	Constitutional Law	3
PoSc 328	Political Theory	3
Hist 319	Economic History of U.S.	3
Hist 330	Teaching Social Science in the Secondary School	2
Geog 230	Latin America	2
Soci 140	General Sociology	3
Soci 340	Social Stratification	3
Econ 202	Principles of Economics	3
Geog 220	Regions and Nations	3
	Upper division electives in American History	5

47

Suggested order of study:

<i>First Year</i>		<i>Second Year</i>	
PoSc 120 U.S. Government	3	PoSc 222 State Government	2
Hist 104 History of U.S.	5	Hist 200 Western Civilization	5
Soci 140 General Sociology	3	Phil 280 Intro to Phil	3
Engl 102 or 103 Composition	6	Geog 220 Regions and Nations	3
Math 103 or 113	3	Econ 202 Prin. of Economics	3
Psyc 101 General Psychology	3	Sp 101 Speech Techniques	3
Art 103 Introduction to Art	3	Biol 101 General Biology	3
HPER 101 and 102 Intro to P.E.	2	HPER 152 Health Education	2
Engl 106 or 107 World Literature	3	Phys 125 Fund. of Phys. Sci.	5
Electives	1-3	Electives	4-5
	<hr/> 32-34		<hr/> 32-33
<i>Third Year</i>		<i>Fourth Year</i>	
Hist 204 Mod. European Hist.	5	PoSc 328 Political Theory	3
PoSc 318 Political Parties	3	PoSc 424 Constitutional Law	3
Hist 319 Econ. History of U.S.	3	Soci 340 Social Strat.	3
Geog 230 Latin America	3	Electives	6-8
Hist 300 Soc. Intel. Hist.		PROFESSIONAL SEMESTER	15
of United States	3	(Second semester)	
Educ 330 Teaching Sec. Schools ..	1		
Psyc 310 Educational Psychology ..	3		
Hist 301 Soc. Intel. Hist.			
of United States	3		
Senior Division Electives	4-5		
	<hr/> Total		<hr/> Total
	32-33		30-32

REQUIREMENTS TO QUALIFY TO TEACH SOCIAL SCIENCE AS A SECOND FIELD AT GRADES 7 THROUGH 9 ONLY

Course Number	Course Title	Credit Hours
Hist 200	Western Civilization	5
Hist 104	History of the United States	5
PoSc 120	United States Government	3
PoSc 222	State and Local Government	2
Econ 202	Principal of Economics	3
Geog 220	Regions and Nations	3

NOTE:

1. The professional education sequence is required for the Bachelor of Science in Education degree. The professional education sequence is taught in the Division of Education and Psychology.
2. A second teaching field at the Junior High School level may be obtained by earning a minimum of 21 hours in one of the following areas: (1) physical education (2) speech and drama (3) foreign language (4) journalism (5) mathematics (6) science (7) English.

DIVISION OF SEMI-PROFESSIONAL AND TECHNICAL EDUCATION

AUTOMOTIVE TECHNOLOGY

Auto 100 Automotive Engine (5) A beginning course in theory and practical mechanics of the Internal Combustion Engine. Emphasis will be placed on the physics and chemistry of combustion as related to engineering principles. Also, students will work in laboratory shops with engines to learn mechanical relationships and usage of tools and gauging instruments. 3 one-hour lectures; 12 hours lab. per week.

Auto 120 Automotive Electrical, Ignition and Carburetion Systems (5) A beginning course in electricity, basic automotive ignition systems, fuels and lubricants, production and testing. Emphasis is on electrical fundamentals as related to spark ignition and carburetion principles. Laboratory periods provide opportunity to learn mechanical relationships of parts in carburetors, starters, generators, regulators and relays, and distributors. 3 one-hour lectures; 12 hours lab. per week.

Auto 200 Automotive Chassis, Brakes and Transmissions (5) Principles of hydraulics, pneumatics, and dynamic forces as related to the modern automobile. Shop work will emphasize balance, steering, control, suspension design, and power train component operation. Students will learn mechanical relationships in transmissions, clutches, and differentials; also, front and rear suspensions and brake systems. 3 one-hour lectures; 12 hours lab. per week.

Auto 220 Automotive Refrigeration and Air Conditioning (3) Course designed to familiarize student with automotive air-conditioning installation and thermodynamic principles. Students will service units on and off the vehicle and study problems related to heat transfer and cooling. 2 one-hour lectures; 6 hours lab. per week.

Auto 250 Automotive Body and Paint (5) Theory and practice in metallurgy as related to metal fabricating, moulding, shaping, and welding. Students will work in shop laboratory repairing basic automotive body parts. Emphasis is on repair theory as well as making repairs and refinishing damaged body parts. 3 one-hour lectures; 12 hours lab. per week.

Auto 260 Automotive Servicing (5) Simulated automotive dealership garage with actual working conditions on customer's cars. Emphasis will be placed on public relations, auto shop lay-out, and management of personnel.

Auto 111 Technical Mathematics (3) Review of basic Mathematics, algebra, and the functional concepts of trigonometry. Includes use of tables and graphic methods of solving problems with emphasis on application to problems in applied fields. Daily.

Auto 190 Technical Science (4) Graphical and mathematical analysis of forces, laws of motion machines, and mechanical power, fluid mechanics, and conductivity. Course work places emphasis on applied problems. Three one-hour lectures; 1, two-hour lab.

Auto 101 Business and Shop Records (3) A basic accounting cycle with emphasis on recording transactions affecting cash, sales, purchases, and the preparation of financial statements. Three one-hour lectures.

DATA PROCESSING

Comp 177 Basic Computing Machines (3) A study of electric accounting machines; illustrating the need for machines in accounting and record keeping, and the concept, power, and flexibility of the unit record. Includes the unit records, machine functions, elements of a machine, the card punch and verifier, interpreter, sorter, reproducing punch, collator, tabulators, and calculators. Daily.

Comp 172 Key-Punch Operation (3) Preliminary emphasis on basic mastery of the keyboard and mechanism of the key-punch. Latter portion of the course places emphasis on speed and accuracy of operation. Daily.

Comp 175 Introduction to Programming (3) A introduction to digital computers which includes: basic principles; systems theory, decimal system, binary system, and octal system; systems conversions; arithmetic operations; self-complementing codes and other coding systems; computer logic; systems components; general block diagram and program functions; high speed memory; programming essentials and solution of simple data processing problems. 2 one-hour lectures; 1 two-hour lab per week. Prerequisite: Basic Computing Machines or consent of Instructor.

Comp 177 Advanced Programming (3) A study of the functions and capabilities of electronic data-processing machines which familiarizes the student with some of the tools and raw material necessary for becoming a programmer. Includes computer applications, organization of the data processing system, instruction—card system, methods of program debugging, housekeeping techniques, loops and indexing, and subroutines. 2 one-hour lectures; 1 two-hour lab per week. Prerequisite: Introduction to Programming 175.

Comp 180 Data Processing Applications (3) A continuation of 177. The principles presented in previous courses will be employed repeatedly in this course. Includes subroutine, macro-programming, job timing, programming a random access device, and program testing. 2 one-hour lectures; 1 three hour lab. per week. Prerequisite: Advanced Programming 177 or consent of Instructor.

Comp 181 Computer Machine and Machine Language (3) Provides the necessary foundation for study of business data processing. Usually includes the concepts of notation; binary arithmetic; representation of a number with an arbitrary base, fixed and floating point numbers; precisions and significances; and linear equations. 3 one hour lectures.

Comp 182 Systems Development & Design (3) A course in business systems design and development designed to guide the student through the evolution of a system: analysis of present information flow, system specifications and equipment selections, and implementation of the system. Includes the approach, requirements of a system, developing the solution, data controls, system controls, system evaluation, finalizing the system and system implementation. 3 one hour lectures plus necessary arranged laboratory time.

Engr 280 Strength of Materials (3) A study of unit stress and strain, the modulus of elasticity and the various types of stress. The beam theory and its application to beam design is emphasized, followed by discussion of the column, springs, torsion charts, and riveted and welded pressure tanks. Allowable bending, tension, compression and shearing stresses of structural materials are emphasized. 2 one hour lectures and 1 two hour lab. per week.

Comp 290 Analog Computers (3) Methods and techniques of solving simultaneous linear and non-linear differential equations on electronic analog computers. Includes the principles of multiplication, division and simulation of non-linear devices and systems. 2 one hour lectures; 1 two hour lab. per week.

Comp 453 Introduction to Numerical Analysis (4) Digital computer programming, finite differences, numerical solution of non-linear systems and differential equations. Solution of many problems on a digital computer. Must be preceded or taken simultaneously with Mathematics 323. 3 one hour lectures; 1 two hour lab. per week.

NURSING

Nurs. 100 Fundamentals of Nursing (5) A course designed to orient the student to the role of the professional nurse. Includes ethics, history of nursing, personal hygiene, nutrition, medical asepsis, and medications. The approach is to introduce the student to the role of the nurse in meeting needs common to all patients and to the privileges and responsibilities of the professional nurse. The student is given an opportunity to acquire knowledge, skill, and attitudes essential for the practitioner of nursing, based on principles of physical, biological and behavioral science. Pre and post conferences with supervised practice. Three hours lecture a week. Eight hours laboratory.

Nurs. 120 Medical and Surgical Nursing I (8) Theory and supervised practice are provided for nursing care of adults, pre-, intro-, and post-operatively; of patients with long-term and rehabilitative needs, those receiving radiation, and those with neo-plasms as they occur in various anatomic locations. Experience for each student is varied to include both medical and surgical conditions. Includes pharmacology, diet therapy, and emergency nursing. Pre and post conferences with supervised practice. 5 hours class a week. 12 hours Clinical Laboratory Prerequisite: Fundamentals of Nursing.

Nurs. 130 **Psychiatric Nursing** (4) This course is planned to help the student develop an understanding of the general principles of psychiatric nursing. Supervised practice in the application of these principles is provided with pre and post conference with student. Includes the prevention of illness and rehabilitation with pharmacology and diet therapy integrated. 4 hours class; 16 hours Clinical Laboratory.

Nurs. 140 **Growth and Development** (3) A study of physical, mental and emotional development from conception, infancy through senescence. Concepts and principles basic to understanding of human development and human relations. Summer Course.

Nurs. 210 **Maternal and Child Health** (8) This is a family centered course with emphasis on normal aspects of the maternity cycle, prevention of complications, the nurse's role as a health teacher. Emphasis is on individualized care in health and disease. A variety of teaching methods and resources are utilized in the classroom. The supervised practice in the clinical area includes pre and post conferences. Child care centers, clinics and physicians office are expected to be utilized in supplementing clinical facilities. Pharmacology, normal nutrition and diet therapy integrated. Based on principles of physical, biological and behavioral sciences. 5 hours a week; 12 hours laboratory.

Nurs. 201 **Nursing Trends** (1) A survey of nursing with particular references to contemporary movements in international nursing, legislation, professional organizations, and in nursing literature. 1 hour theory each week.

Nurs. 202 **Nursing Trends II** (1) A continuation of Nursing Trends I. Includes preparation for licensure, employment, financial programing of graduate life. 1 hour theory each week.

Nurs. 220 **Medical and Surgical Nursing II** (8) This course is designed to provide information to enable the student to further develop knowledge and skills necessary to provide nursing care to meet the individual needs of patients. Major health problems are studied with consideration of scope, prevention, diagnosis, treatment, rehabilitation, and nursing care. Consideration is given to deviation from normal growth and development which predisposes of illness, psychological, cultural, and socioeconomic factors which may cause, complicate, or affect the patients treatment. Supervised practice is provided for nursing care of medical and surgical patients which offer the following experience: Infectious diseases, psychosomatic disorders, allergic reactions neuromusculoskeletal impairment and metabolic dysfunction. Includes pharmacology, diet therapy and emergency nursing. 5 hours class theory; 12 hours clinical experience.

DIVISION OF EDUCATION AND PSYCHOLOGY HEALTH AND PHYSICAL EDUCATION

EDUCATION

Educ 010 **Techniques of Reading** (cr. only) f.w. A reading improvement program consisting of a group and individual work, intended primarily for students needing some remedial work in reading. Individual diagnostic reading tests are given to determine student needs.

Educ 313 **Guiding the Exceptional Child** (2) w. Understanding and guiding the exceptional child through study of child growth and behavior as it relates to such children. How to recognize and deal with specific problems of exceptional children.

Educ 317 **Problems of Teaching Arithmetic in Elementary Schools** (2) w. Basic course in the teaching of arithmetic in the elementary grades. The application of principles of learning and techniques of presentation are considered. (Math 317)

Educ 318 **Science in the Elementary School** (2) f. Emphasis on science in the child's environment. Development of problems, activities, and experiments. Survey and evaluation of teaching materials and laboratory equipment suitable to the elementary school. Prerequisite: A course in biological and in physical science.

Educ 320 **Basic Methods of Elementary School Instruction** (5) f.w. An integrated course including problems related to the teaching of elementary social studies and general instruction in the elementary school. Classroom organization and management; lesson, curriculum, and unit planning are studied. Should be taken concurrently with Psych. 310. Prerequisite: Psych 202, Child Psychology or a comparable course.

Educ 330 **Teaching in the Secondary School** (5) f,w. A study of techniques of teaching in the secondary school with consideration of the social and psychological nature of the learner. Emphasis on classroom management and control, methods of presentation, construction of units and lesson plans. Development and status of secondary education in United States. Introduces students to professional laboratory experiences. Special methods of teaching the various academic areas will be included in this course as a part of a team teaching arrangement.

Educ 335 **Language Arts and Reading in the Elementary School** (3) f,w, s. Foundation course for development of understanding and attitudes necessary to teach written and oral communication, listening, and reading at the elementary level.

Educ 375 **Introduction to Instructional Media** (2) f,w,s. Designed to give the teacher a basic understanding of the preparation and use of the various audio-visual materials and devices, with emphasis on the preparation of such materials. Recommended for elementary and secondary education majors.

Educ. 405 **History and Philosophy of Education** (3) w. Study of educational thinking and practices from the ancient to the present. Emphasis is on relating earlier educational thought to the schools of today.

Educ 420 **Foundations of Curriculum Development** (3) w. An overview of curriculum and instruction as it relates to the elementary and secondary schools considers the psychological, sociological, and philosophical basis for curriculum building.

Educ 465 **Teaching Reading in Secondary Schools** (3) w. Designed to help prospective teachers understand reading development and its part in the total school program.

Educ. 440 **Principles of Guidance** (3) f.w. Survey of guidance philosophies, principles and practices. Designed for the classroom teacher as well as the guidance specialist, and is a basic course in the guidance sequence.

Educ. 430 **Legal and Professional Responsibilities of Educators** (3) w. Legal and professional role of school personnel, their relationship to federal and state governments, and to local school districts; certifications; salary schedules, retirement, and other benefits; professional organizations for teachers; relationship with the administration, pupils, parents, and the community.

Educ. 480 **Student Teaching, Elementary** (6) w. Participation, under supervision, in teaching on the elementary level in an off-campus school. Prerequisites: 88 semester hours with a grade-point average of 2.2; admission to the program of teacher education; educ. 320. Course assignment will include full-time supervised teaching for one-half of a semester. Additional general conferences scheduled as needed. Specific assignment to be made by Head, Department of Elementary Education.

Educ. 481 **Student Teaching, Elementary** (3) w. Designed to provide student teaching experience in an approved public school in the student's subject or foreign languages at both elementary and secondary levels. Prerequisite: See Educ. 480. Course assignment to consist of a minimum of 15 hours a week of participation and conferences scheduled as needed. Specific assignment to be made by Head, Department of Elementary Education.

Educ. 490 **Student Teaching, Secondary** (6) w. Participation, under supervision, in teaching on the secondary level in an off-campus school. Curriculum, materials, and methods integrated with teaching participation and observation. Prerequisites: Educ. 330 or equivalent; and fifteen semester hours in teaching field. Grade-point average of 2.2. Assignment to consist of full-time teaching for one-half semester (professional courses to be taken during other one-half semester). Specific assignment to be made by Head, Dept. of Secondary Education.

Educ. 491 **Student Teaching, Secondary** (6) w. Participation, under supervision, in teaching on the secondary level in an off-campus school. Curriculum, materials, and methods integrated with teaching participation and observation. Prerequisites: See Educ. 490. Assignment to consist of daily three-hour block of time during a regular semester.

Educ. 493 **Student Teaching, Secondary** (3) w. Participation, under supervision, in teaching on the secondary level in an off-campus school. Curriculum, materials, and methods integrated with teaching participation and observation. Prerequisites: See Educ. 490. and 481. Assignment to consist of minimum of fifteen hours per week of participation and conferences. Specific assignment to be made by Head, Department of Secondary Education.

Educ. 495 **Techniques of Diagnostic and Remedial Instruction in Reading** (2) w. A study of devices and techniques for diagnosis of reading disabilities and presentation of suggested remedial measures and methods of reducing deficiencies. Practical applications and laboratory experience will be emphasized. Special emphasis upon intermediate and secondary school reading problems. Prerequisite: Education 335 or 465.

PSYCHOLOGY

Psych. 101 **General Psychology** (3) f,w. An introductory course, stressing the importance of the psychological mechanisms underlying all mental processes, such as sensation, perception, emotion, thinking, and learning.

Psyc. 201 **Child Psychology and Development** (3) f,w. Behavior and growth patterns of children are studied. Psychological facts and principles which are necessary for the understanding of the child in his home and school environment. Prerequisite: Psyc. 101.

Psyc. 202 **Adolescent Psychology** (3) f,w. Sum. A study of the development of the attitudes, interests, problems, and adjustments of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psyc. 101.

Psyc. 205 **Psychology of Personal Adjustment** (3) f. A study of the basic problems of personality adjustment intended to aid the student in promoting better mental health for himself and to better understand the behavior of others.

Psyc. 310 **Educational Psychology** (3) f,w, Sum. Study of the psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis placed on measurement, the nature of learning, and the environmental influences behavior. Prerequisite: Psyc. 101.

Psych. 340 **Social Psychology** (2) w. Study of the social behavior of the individual, interests and tendencies that grow out of the community life of the race in terms of inter-group and interpersonal relationships. Prerequisite: Psyc. 101.

Psych. 410 **Measurement and Evaluation in Education** (3) w. A study of test construction and appraisal. Practice in evaluating and selecting tests, in administering and scoring, and in the analysis and presentation of test results.

Psych. 430 **Abnormal Psychology** (3) w. Study of the pathological individual in regard to perception, associating, memory, emotion, motor ability, nature, development, and forms of personality. Prerequisite: Five hours of Psychology.

Psych. 435 **Independent Study** (3) By arrangement. A research problem of special interest is scheduled and completed by each student, under the immediate direction of the instructor. Open only by permission of the department.

Psych. 450 **Psychology of Learning** (3) w. Designed to acquaint the student with the major theories of learning. The theories will be analyzed, compared, and evaluated in the light of current research findings in the area of human and animal learning. Prerequisite: 6 hours of Psychology.

Psych. 475 **Individual Intelligence Testing** (3) f or w. A study of the individual intelligence tests with practice in the administering and interpreting of the scores. Emphasis is placed on the Wechsler Scales. Prerequisite: 9 hours of Psychology.

HEALTH

HPER 162 **Health Education** (2) f,w. Study of some health problems of the individual, body mechanics, nutrition, quackery, science disease, sex hygiene, mental hygiene, and the cause and prevention of common diseases.

Psy 205 **Psychology of Personal Adjustment** (3) (see Psychology)

Biol 220 **Human Anatomy and Physiology** (see Biology)

HPER 285 **First Aid and Safety** (3) w. Designed to complete the standard course of the American Red Cross in First Aid and to acquaint the student with materials for safety education in the home, school, and community.

HPER 372 **School and Community Health Education** (3) f,w. Study of the services, facilities, and equipment needed for school and community as they relate to the health of the individual and of the groups.

HPER 458 **Care and Prevention of Injuries** (3) f,w. Laboratory experiences in the care of athletic injuries. Designed to meet Red Cross First Aid requirements. Open to men only. Prerequisites: Biol 262, and HPER 345. May be taken concurrently with HPER 345.

PHYSICAL EDUCATION AND RECREATION

HPER 105 **Individual Physical Education** (1) f,w, sum. Designed for the physically disabled student. Opportunity is provided for the development of physical skills within the limits of the disability.

HPER 150 Foundations of Physical Education I (4) f. Designed to acquaint the student with the philosophical and theoretical background of physical education. Study of the skills and understandings of selected activities; games, sports and rhythm commonly found in the school program. Students will be required to demonstrate minimum levels of proficiency in the various activities covered. Students may be required to enroll in an activity course in areas of weakness. Taught by a team composed of members from both the men and women's physical department. Meets for two periods daily.

HPER 151 Foundations of Physical Education II (4) w. Continuation of HPER 150.

HPER 265 Advanced Swimming and Water Safety (2) f,w. (coed) Techniques of individual safety in water, methods of aiding a person in distress, rescue of a drowned person and resuscitation. Qualifies for Part I of Red Cross Water Safety Instruction. Prerequisite, Intermediate swimming or average swimming ability.

HPER 311 Physical Education for the Elementary School (2) f,w. Study of the methods and materials needed in directing the activity program of games, skills, rhythm, and stunts for the elementary school child. Designed for men and women who are candidates for the elementary teaching crificates. (Non-Majors only).

HPER 312 Elementary School Physical Education (2) f,w. and on demand. Intended for physical education teachers in the elementary grades. Emphasis is placed upon curriculum development, evaluation, organization of instructional supervision and instructional materials. (Majors only), (See HPER 311).

HPER 330 Methods of Teaching Secondary School Physical Education (2) f or w. Lectures ,deminstrations, small group work, individual conferences, opportunity for participation in teaching physical education activities in the secondary school. (see Ed. 330)

HPER 345 Kinesiology (3) f or w. Sudy of bodily movement, posture, muscular exercise, and of selected physical limitations. Development of a program of preventive and corrective measures for the typical student is considered. Emphasis is placed on the muscles of the body and their function. Prerequisite: Bio 262, or equivalent.

HPER 346 Organization of Adapted Physical Education (3) w. Study of the means used to provide a physical education program to fit the needs of the physically handicapped.

HPER 355 Rhythmic Form and Analysis (2) f or w. Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite, activity course in dance.

HPER 391 Recreational Leadership (3) f. Designed to assist students in gaining a philosophy and understanding of recreation. Considers the practical application of methods, organization, and leadership in recreational activities.

HPER 420 Teaching and Supervision of Sports and Games I (3) f. A professional course designed for physical education teachers with emphasis on organizing, officiating, and performing of team sports.

HPER 421 Teaching and Supervision of Sports and Games II (3) w. A professional course designed for physical education teachers with emphasis on organizing, and performing of individual and dual sports.

HPER 433 Administration of Interscholastic Athletics (2) w. Study of the organization of competitive sports in secondary schools and colleges. Included are legal aspects, current trends in management, budgeting and financing, public relations, and eligibility.

HPER 434 Administration of the Extra-Class Program in Physical Education (2) f. Study of the organization and conduction of the extra-class program in schools; staff functions, student leadership, officiating, facilities, equipment, health and legal aspects. Emphasis on intramural and extramural competition, play days, and sports day.

HPER 451 Coaching Football (2) f. Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. (1968)

HPER 452 Coaching of Basketball (2) w. Organization and management of school football program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season.

HPER 453 Coaching of Track (2) w. Organization of administration and meets, coaching physical conditioning and training for each event of track and field programs.

HPER 454 Coaching of Baseball (2) w. Organization and management of a school baseball program to individual techniques, team play and problems in coaching of baseball.

HPER 455 Organization and Administration of Health, Physical Education and Recreation (3) f,w, sum. Organization and management of health and physical education in schools; scheduling, personnel, curriculum, finance, equipment, and facilities.

HPER 461 Independent Study (1-3) f,w. Research of a problem relating to physical education material content, credit, and schedule to be arranged by permission of the department head.

RULES GOVERNING ACTIVITY COURSES

All freshmen students are required to enroll for a physical education activity course or health education during each semester of their resident attendance, until they have earned four semester hours of credit in this area. (Physical education majors should take HPER 150 and 151).

All freshmen women and men enroll in Physical Education 101 (PE majors 150) during the first semester and Physical Education 102 (PE majors 151) during the second semester. Students are required to complete two additional activity courses of their choice to complete HPER 162 (majors must take 162).

Varsity athletes should also enroll in the sport of their choice which will replace any activity course requirement except HPER 101 and 102.

A uniform prescribed by the division is to be furnished by each student and is a course requirement.

Physically disabled students should take HPER 105.

ACTIVITY COURSES

The activity courses listed below are in some cases combined in groups of two or more to provide one hour of credit.

- HPER 101 Introduction to Physical Activities I. (1) Men only.
- HPER 101 Introduction to Physical Activities I. (1) Women only.
- HPER 102 Introduction to Physical Activities II. (1) Men only.
- HPER 102 Introduction to Physical Activities II. (1) Women only.
- HPER 105 Individual Physical Education. (1)
- HPER 108 Elementary Gymnastics and Tumbling. (1) (1967) w.
- HPER 208 Intermediate Gymnastics. (1968)
- HPER 111 Wrestling, Weight Training, Boxing. (1) Men only. (1968)
- HPER 112 Elementary Swimming. (1) (1966)
- HPER 212 Intermediate Swimming. (1) (1966)
- HPER 115 Touch Football, Speedball, Softball, Basketball. (1) (1967) f.
- HPER 116 Track, Volleyball. (1) (1967) f.
- HPER 120 Bowling and Golf. (1) (1967) f. Coed.
- HPER 121 Tennis and Badminton (1) (1967)
- HPER 125 Fencing and Handball and Archery. (1) (1967) f.
- HPER 128 Recreational Activities. (1) Coed (1966)
- HPER 130 Social Dance (1) (1967) w.
- HPER 133 Elementary Modern Dance. (1) (1968)
- HPER 230 Intermediate Ballroom Dance. (1) (1968)
- HPER 231 Intermediate Folk Dance. (1) (1968)
- HPER 233 Intermediate Modern Dance. (1) (1968)
- HPER 210 Varsity Basketball. (1) Men only. (1966) w.
- HPER 211 Varsity Football. (1) Men only. (1966) w.
- HPER 218 Varsity Baseball. (1) Men only. (1969 or 1970) w.
- HPER 216 Varsity Track and Field. (1) Men only. (1966)
- HPER 213 Varsity Cross Country. (1) Men only. (1966)

Unless otherwise noted, courses listed above have separate sections for women and men. Either an "M" or "W" is added to the course number in the schedule to indicate this reference.

DIVISION OF BUSINESS AND ECONOMICS

ACCOUNTING

Acct 101 **Elementary Accounting I** (3) f,w,s. Fundamental principles as applied to modern business practice. Analysis of balance sheet and income statement.

Acct 102 **Elementary Accounting II** (3) w. A continuation of Accounting principles with emphasis on corporation accounts. Prerequisite: 101 or equivalent training.

Acct 201 **Intermediate Accounting** (3) f. Application of accounting principles to manufacturing statements, inventories, valuation accounts, and other special topics. Prerequisite: 102.

Acct 202 **Cost Accounting** (3) w. Study of accounting control as applied to industrial enterprise. Special emphasis on product costs and cost systems. Prerequisite: 201.

Acct 301 **Advanced Accounting** (3) f. Further development of the theoretical aspects of accounting principles. Prerequisite: 201.

Acct 310 **Consolidated Statements** (3) w. Preparation of adjusted accounting statements to current complex forms of business organizations. Prerequisite: 201.

Acct 401 **Tax Accounting** (3) w. Accounting procedures required by current laws, relating to federal and state income taxes. Prerequisite: 201.

Acct 410 **Auditing** (3) w. Verification principles and analysis, interpretation of records and statements, preparation of working papers. Prerequisite: 201.

ECONOMICS AND FINANCE

Econ 201 **Principles of Economics** (3) f,w. A study of fundamental institutions of the American Economy, the theory of price determination, and the theory of income distribution. Prerequisite: Sophomore standing or permission.

Econ 202 **Principles of Economics** (3) f,w. A study of aggregate economic performance with emphasis on national income stabilization and growth, business cycles, monetary and fiscal policy, international trade, comparative economic systems, and current economic problems. Prerequisite: Principles of Economics No. 201 or permission.

Econ 301 **Money and Banking** (3) American monetary and banking system, particularly the Federal Reserve System, and its influence on economic activities. Prerequisite: Principles of Economics 201 and 202.

Econ 302 **Economic Growth and Development** (3) Principles and problems involved in promoting development of the less mature economies, and growth in the more-mature economics. Prerequisite: Principles of Economics 201 and 202.

Econ 350 Corporate Finance (3) w. An examination of the financial structure of business organization capital structure and methods of raising fixed and working capital; questions of financial policy, such as dividend policies and the conservation of surplus; comparative balance sheets and income-expense statements. Prerequisite: Economics 201 and 202.

Econ 360 Investments (3) Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of investment companies and investing institutions; relation of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Corporate Finance 350.

Econ 401 Advanced Economic Analysis (3) An analytical study of the price system, as affecting resource allocation and other welfare questions. Prerequisite: Principles of Economics 201 and 202 or permission.

Econ 402 Government and the National Economy (3) Governmental attempts to a control aggregate activity; improve the social value of business; promotion and moderation of competition. Prerequisite: Principles of Economics 201 and 202 or permission.

GENERAL BUSINESS

GBus 101 Introduction to Business (3) f. An introductory course in modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation.

GBus 105 Business Mathematics (3) f.w. A review of the fundamental processes of mathematics as applied to business. It also includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes, and financial statements. It should be taken concurrently with or precede accounting and/or office machines.

GBus 110 Office Machines (3) f.w. A laboratory course in the operation of the office machines found in the modern business office. Training is given in the operation of the ten-key and full-key adding machines, the key-driven rotary and printing calculators, the bookkeeping machine, the transcription machine, and the stencil and spirit duplicators. Emphasis is placed upon the student developing accuracy and speed in working typical business problems. The objective of the course is for the student to develop enough skill in the various machines so that he may obtain initial employment. Meets five days a week.

GBus 111 Office Machines (3) w. An advancement laboratory course, continuing the work as set up in office machines 110. Special emphasis is placed on machine bookkeeping and rotary calculators. The student is also expected to attain additional skill in the operation of the adding machines, the printing and key-driven calculators, and the preparation of more difficult stencils for the stencil duplicator. Meets three days a week. Prerequisite: Office Machines 110.

GBus 120 Business Communications (3) w. The study of principles for writing effective business letters, memos, formal and informal reports and all phases of effective business communications. Prerequisite: English 102 and 103 or permission.

GBus 301 Business Law I (3) A study of the principles of law and its enforcement as applied to American Business. The course includes the study of contracts, agency and employment, negotiable instruments, personal property, and bailments and sales of goods. Special attention is placed on law terminology and cases and problems are used to illustrate the various aspects of business law. Prerequisite: Junior standing or with the consent of the instructor.

GBus 302 Business Law II (3) A contribution of the study of business law as it relates to partnerships, corporations, real property and leases, insurance security devices, bankruptcy, trusts and estates, and government regulations. Cases and problems are used extensively. Prerequisite: Business Law I (301)

MARKETING AND MANAGEMENT

Mktg 301 Principles of Marketing (3) f.w. A survey of the major marketing methods, institutions and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing, pricing, marketing research and marketing cost are treated from the standpoint of consumers, middlemen, and manufacturers. Prerequisite: Economics 201 and 202.

Mktg 310 Retailing (3) Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: Mktg 301.

Mktg 320 Advertising (3) Description of fundamental advertising principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising, and formulation of campaigns. Prerequisite: Principles of Marketing.

Mgmt 350 Business Organization and Management (3) f.w. A course in business organization and management with application of concepts and techniques to specific, realistic case situations.

Mgmt 335 Personnel Management (3) w. A study of the principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: Business Organization and Management 350 or consent of instructor.

Mgmt 360 Production Management (3) f. Principles and decision analysis related to the effective utilization of the factors of production in manufacturing activities for both intermittent and continuous systems. The study of production organizations, analytical models and methods, facilities design, and the design of control systems for production operations. Prerequisite: Business Organization and Management 350.

395 **Business Policy** (3) An integrating course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisite: Business Organization and Management 350.

Mgmt 415 **Marketing Management** (3) Managerial aspects of marketing; problems involved in investigations of markets, planning the sales effort, management of sales and service personnel, and control of sales operations. Prerequisite: Business Organization and Management 350 and Principles of Marketing 301.

OFFICE ADMINISTRATION

Ofad 101 **Typewriting** (elementary typewriting) (3) The chief emphasis in this course is to learn to manipulate the typewriter efficiently. The development of speed is stressed so that the student will, upon completion of the course, have a fair rate which will be of use to him personally. A few simple letter styles are taught as well as manuscript writing and simple tabulation.

Ofad 102 **Typewriting** (intermediate typewriting) (3) w. This is primarily a letter-writing course. All the styles of business and personal letters are studied and written. Efficient methods of writing more difficult manuscript and tabulations are also studied. Minimum requirement for passing is the ability to type 40 words per-minute for ten minutes within the 5-error limit. Prerequisite: Typing 101 or a good knowledge of the keyboard.

Ofad 110 **Shorthand** (Elementary) A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Typewriting should precede or parallel the course. Class meets five days per week.

Ofad 111 **Shorthand** (3) f,w. (Intermediate) A dictation course in which the theory has been completed. It is a review of theory, and special attention will be given to developing efficient transcription procedures. Dictation will range from 60 to 100 words per-minute, depending upon the ability of the students. The minimum speed requirement by the end of the semester is to write at least 80 words per-minute with 95 per cent accuracy. Prerequisite: Shorthand 110 or any course in which the theory has been completed.

Ofad 201 **Typewriting** (advanced) (3) Production of mailable letters, manuscripts, reports, addressing envelopes, business forms and legal typing is emphasized. Minimum passing requirement is 60 words per-minute for ten minutes with the 5-error limit. Prerequisite: Typewriting 102 or the ability to type 40 words per minute and a knowledge of letter writing.

Ofad 210 **Shorthand** (3) f (advanced shorthand). The emphasis in this course is to develop accuracy in transcription as well as to increase the rate of transcription. Dictation will range from 80 to 140 words per minute. The minimum requirement by the end of the semester is at least 100 words per minute with 95 per cent or more accuracy. Prerequisite: Shorthand 111 or the ability to take dictation at 80 words per minute.

Ofad 220 **Dictation and Transcription** (3) This is a course for the development of expert stenographers. A great deal of emphasis is placed upon accuracy and rate of transcription, and production of mailable letters. Dictation will range from 100 words per minute to 160 words per minute. The minimum requirement by the end of the semester is at least 120 words per minute with at least 95 per cent accuracy. Prerequisite: Shorthand 210 or the ability to take dictation at 100 words per minute.

Ofad 250 **Secretarial Procedures** (3) w. Business ethics, secretarial duties common to all lines of business, such as handling mail, meeting callers, using the telephone, etc. The student receives instructions in the use of present day filing systems and their application to the various types of business. This course is offered for sophomores in the Office Administration curriculum. Freshmen may be admitted by permission of the instructor.

Ofad 330 **Methods of Teaching Business** (2) w. Special methods of instruction problems, and difficulties peculiar to the teaching of each business subject; presentation of subject matter; content and arrangement of material, organization and administration. Prerequisite: At least one course in Education and one course in psychology. Two hours credit in Education. (See Ed. 330).

DIVISION OF HUMANITIES AND FINE ARTS

ART

Art 101 Art Composition (3) f,w. Introductory course using fundamental techniques and media. Foundation course for all art majors.

Art 102 Introduction to Art (3) f,w. A general survey course designed to increase appreciation of visual art. For non-art majors and required for all art majors.

Art 103 Ceramics (3) f,w. Methods and techniques of hand building are studied with application to modeling and throwing clay forms. Prerequisite: 101 or 102.

Art 104 Drawing Techniques (3) f,w. Free-hand drawing problems using various drawing tools and techniques used by master artists. Prerequisite: 101.

Art 105 Introduction to Design (3) w. Foundation course using problems involving art principles and elements, Prerequisite: none.

Art 201 Arts and Crafts (3) f,w. General crafts course involving leather tooling, block printing, pottery, weaving and some graphics. May be taken by non-art majors.

Art 202 Sculpture Techniques (3) f. Study of various sculptural problems and techniques in stone, clay, wood, and mixed media. Prerequisite: Art 101, 103, or 105.

Art 203 Art Education (3) f,w. Course designed to develop understanding of the problems in teaching art with emphasis on methods of teaching various art problems. Required of all Elementary Education Majors. No Prerequisite.

Art 204 Basic Form (3) f,w. Study of relationships of parts to form. Problems include two and three dimensional. Prerequisite: Art 102 or Art 105.

Art 205 Painting (3) w. Procedures, techniques, and fundamentals of painting, media-oil watercolor, and mixed. Prerequisite: Art 101.

Art 301 Art History (3) f. Survey of the development of man's artistic endeavors from Stone-age to the Early Renaissance. Text required. Prerequisite: junior standing.

Art 302 Art History (3) w. Continuation of 301 from the Early Renaissance in Italy to the present art styles. Same text as for Art 301. Prerequisite: junior standing.

Art 303 Drawing (3) f,w. Investigation of various art drawing media. Life, still life, and landscape used as subject matter. Prerequisite: Art 101, 104, 105, or approval of the instructor.

Art 304 Watercolor (3) f,w. Technical and aesthetic understanding of watercolor with various subject matters encouraged. Prerequisite: Art 104.

Art 305 Sculpture I (3) Various media (Stone, Marble Wood) are chosen by the student for investigation. Prerequisite: Art 202.

Art 306 Sculpture II (3) Continuation of Sculpture 305.

Art 401 Oil Painting (3) f. Student selects an individual problem for investigation. Techniques, history, and appreciation of oil painting surveyed for understanding. Prerequisite: Art 205.

Art 402 Commercial Art (3) w. Lettering, layout, and design techniques. Survey of various reproductive processes. Prerequisite: Art 105 and 204.

Art 403 Head Study (3) w. Fundamental methods in portraiture. Various drawing and painting media for structure of the head. Artistic head anatomy used for each head study. Prerequisite: Art 105 and 204.

Art 404 Graphics (3) f. Initial laboratory exercises in various graphic processes; etching, engraving, block print, and lithography. Prerequisite: Art 303.

Art 405 Independent Study (2) f. Special study in any area as determined in consultation with major advisor.

Art 406 Independent Study (2) w. Special study in any area as determined in consultation with major advisor.

ENGLISH

Engl 100 Composition (3) f,w,s. A course designed for students whose placement scores indicate a need for additional work. Three hours of class work and two hours of laboratory per week. No credit toward Baccalaureate Degree or Associate in Arts Degree.

Engl 102 Composition (3) f,w,s. A study of the principles of effective writing based largely upon expository prose models. Students demonstrating exceptional ability may be permitted to substitute English 104.

Engl 103 Composition (3) f,w,s. A course that develops reading comprehension through a study of various types of literature and offers practice in expository writing. Prerequisite: Engl 102.

Engl 104 Composition (6) f. A special composition and literature course for freshmen who demonstrate exceptional proficiency on placement tests.

Engl 106 Masterpieces of World Literature (3) f. Selected masterpieces of world literature through the Renaissance.

Engl 107 Masterpieces of World Literature (3) w. Selected masterpieces of world literature from the Renaissance to the present.

Engl 115 Introduction to Journalism (3) f. A study of vocational opportunities in journalism and requirements for the professional. Basic principles of journalistic writing and glossary.

Engl 116 News Writing (3) w. A study of news of some complexity; editing, copy reading and proofreading. Practical work on the college newspaper, *The Chart*. Prerequisite: 115 or consent of instructor.

Engl 202 Exposition (3) f,w,s. A study of the techniques of factual writing and the writing of nonfiction. Recommended for all students, especially those entering professional schools. Prerequisite: 6 hours composition and sophomore standing.

Engl 207 English Literature (3) f,w. Survey of English literature to the Romantic Movement. Prerequisite: Engl 103 or 105.

Engl 208 English Literature (3) f,w. Survey of English literature from the Romantic Movement to the present. Prerequisite: Engl 103 or 105.

Engl 210 **Children's Literature** (2) w. A reading, lecture, and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in elementary schools. Prerequisite: Sophomore standing.

Engl 215 **Practical Journalism** (3) f,w,s. Application of journalistic principles to the college newspaper. Enrolling for one hour of credit each term, a student receives no credit until he has completed three terms. Prerequisite: Engl 116 or consent of instructor.

Engl 216 **Feature Writing** (3) f. Advanced course in writing special articles for newspapers and magazines. Practical work on college publications. Prerequisite: Engl 116 or consent of instructor.

Engl 305 **Structure of American English** (3) f. A study of current English structure and usage. Required for prospective teachers. Prerequisite: Junior standing.

Engl 307 **American Literature** (3) f. A survey of American literature to the Civil War. Prerequisite: Junior standing.

Engl 308 **American Literature** (3) w. Survey of American Literature beginning with the Civil War. Prerequisite: Junior standing.

Engl 310 **Medieval English Literature** (3) f. Literature of England during the Middle Ages.

Engl 312 **Shakespeare** (3) f. A study of selected histories and early comedies.

Engl 313 **Shakespeare** (3) w. A study of selected tragedies and late comedies.

Engl 315 **Editorial Writing** (3) w. An analysis of editorials appearing in responsible publications and the writing of editorials of some maturity.

Engl 317 **American Novel** (3) w. A study of representative American novels.

Engl 319 **School Publications** (2) w. A study of editorial and business problems of high school newspapers and yearbooks, including headline writing, layout, staff organization, photography, advertising, and art themes.

Engl 320 **Seventeenth Century English Literature** (3) Prose, poetry, and drama.

Engl 331 **The Romantic Period** (3) f. Representative authors and literary tendencies.

Engl 332 **The Victorian Period** (3) f. Representative authors and literary tendencies.

Engl 330 **Methods of teaching the Language Arts in Secondary Schools** (2) w. See Ed. 330

Engl 340 **Twentieth Century Literature** (3) w. Selected works of outstanding writers since 1900.

Engl 410 **Literature of the English Renaissance** (3) w. Prose, poetry, and drama.

Engl 440 **Exporations in Literature** (3) w. Special studies in literature for seniors majoring in English.

FOREIGN LANGUAGES

Students presenting no high school units in the foreign language in question should take No. 101. Those with 1 high school unit should take No. 101 for 3 hours credit. Students with 2 high school units should take 102. Students with 3 high school units may take No. 102 for 3 hours credit, or 201.

SPANISH

Span 101 **Elementary Spanish** (5) f. Conversation and vocabulary building. Pronunciation proficiency and grammar essentials. Conducted in Spanish as far as practicable. Language Laboratory required. Prerequisite: none.

Span 102 **Intermediate Spanish** (5) w. Intermediate reading and composition. Stressing of conversation. Conducted mainly in Spanish. Language Laboratory required. Prerequisite: 101 or equivalent.

Span 201 **Spanish Conversation and Composition** (3) f. Practice in comprehension of spoken Spanish with oral and written composition in idiomatic Spanish. Conducted in Spanish. Language Laboratory required. Prerequisite: 102 or equivalent.

Span 202 **Reading in Spanish Literature** (3) w. Representative works are read and discussed (in Spanish) with emphasis on similarities due to political, social, and geographical conditions. Novel, poetry, and short story. Prerequisite: Spanish 201 or equivalent.

Span 209 **Commercial Spanish** (2) w. Fundamentals of business and personal correspondence. Practical application to business. Prerequisite: 201 or equivalent.

Span 303 **Advanced Spanish Composition** (3) f. Practice in writing Spanish accompanied by a thorough study of grammar and syntax with emphasis on the subtle elements of idiomatic usage. Prerequisite: 202.

Span 306 **Survey of Spanish Literature** (3) f. The literary background and important writers from the origin of Spanish Literature to 1700. Representative works read and discussed, with written and oral reports. Prerequisite: 202.

Span 307 **Survey of Spanish Literature** (3) Spanish Literature from 1700 to the present. Representative works read and examined critically, with written and oral reports and discussions. Prerequisite: 202.

Span 325 **Introduction to Spanish-American Literature** (3) w. Representative works of poetry, short story, and essay are read and discussed. Prerequisite: 303.

Span 425 **Nineteenth Century Spanish Novel** (3) f. The Spanish Novel as an art form, exemplified by reading and discussion of selected works by such writers as Alacron, Valera, Pereda, Galdos, Pardo Bazan, Palacio Valdes, and Blasco Ibanez. Prerequisite: 307.

Span 435 **Don Quijote** (3) f. The source, structure, characters, language, and style of Cervantes' great masterpiece. Prerequisite: 307.

FRENCH

Fr 101 **Elementary French** (5) w. Conversation and vocabulary building. Pronunciation proficiency and grammar essentials. Language Laboratory required. Conducted in French as far as practicable. Prerequisite: none.

Fr 102 **Intermediate French** (5) w. Intermediate reading and composition. Stressing of conversation. Language Laboratory required. Conducted mainly in French. Prerequisite: 101 or equivalent.

Fr 201 **French Conversation and Composition** (3) f. Practice in comprehension of spoken French with oral and written composition in idiomatic French. Conducted in French. Language Laboratory required. Prerequisite: 102 or equivalent.

Fr 202 **Readings in French Literature** (3) w. Representative works are read and discussed (in French). Novel, poetry, and short story. Prerequisite: 201.

Fr 303 **Advanced French Composition** (3) f. Practice in writing French accompanied by a thorough study of grammar and syntax with emphasis on the subtle elements of idiomatic usage. Prerequisite: 202.

Fr 306 **Survey of French Literature** (3) f. Selected readings in French Literature from the early Middle Ages through the 17th century. Written and oral reports and discussions. Prerequisite: 202.

Fr 307 **Survey of French Literature** (3) w. A selection of readings in French Literature from 1700 to the present. Written and oral reports and discussions. Prerequisite: 202.

GERMAN

Ger 101 **Elementary German** (5) f. Conservation and vocabulary building. Pronunciation proficiency and grammar essentials. Conducted in German as far as practicable. Language Laboratory required. Prerequisite: none.

Ger 102 **Intermediate German** (5) w. Intermediate reading and composition. Stressing of conversation. Conducted mainly in German. Language Laboratory required. Prerequisite: 101 or equivalent.

Ger 201 **German Conversation and Composition** (3) f. Practice in comprehension of spoken German with oral and written composition in idiomatic German. Conducted in German. Language Laboratory required. Prerequisite: 102.

Ger 202 **Readings in German Literature** (3) w. Representative works read and discussed in German. Novel, poetry, and short story. Prerequisite: 201.

MUSIC

Mus 121 Music Theory (3) f. Intensive study of basic materials of music developed through melodic, rhythmic, and harmonic dictation, sight-singing, keyboard and written harmony. Triads, their inversions and connections. For music majors. Others by consent of the instructor. Five meetings per week.

Mus 122 Music Theory (3) w. Continuation of Music 121. Includes seventh chords and their inversions and non-harmonic tones. Intensive work in ear-training and keyboard harmony. Prerequisite: Music 121. Five meetings per week.

Mus 150 Music Appreciation (3) f,w. Designed to give the non-music major an insight into musical masterpieces from all eras of music literature. No credit for music majors.

Mus 170 Choir (1) f,w. Open to all college students by audition only. Preparation and performance of great choral works. Prerequisite: Permission of the instructor.

Mus 172 Lab Band (Stage Band) f,w. Open to all college students who are qualified instrumentalists. The Lab Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of the instructor.

Mus 173 Orchestra (1) f,w. Open to all college students who play an orchestral instrument. The orchestra will present five public concerts each year, performing standard orchestral literature. Prerequisite: Permission of the instructor.

Mus 174 Vocal Ensemble (1) f,w. Small select ensemble from the membership of the college choir. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Membership in choir.

Mus 175 Brass Choir (1) f,w. Performance of literature for brass ensemble. Open to all qualified students. One meeting per week.

Mus 136 Choral Techniques (1) f. Technique of baton, factors in interpretation, score reading, rehearsal procedures for choral organizations, program building, and public appearances.

Mus 137 Instrumental Conducting Techniques (1) w. Technique of baton, factors in interpretation, score reading, rehearsal procedures for instrumental organizations, program building, and public appearances. Laboratory work with the college Concert Band and Orchestra.

Mus 139 Marching Band Techniques (1) w. Procedures used in organizing, promoting, drilling, transporting, uniforming, and sustaining a high school marching band. Deals with problems in charting a half time show and the co-ordinating of suitable music.

Instrumental and Vocal Techniques

- Mus 130 Brass Techniques (1) f.
- Mus 131 Brass Techniques (1) w.
- Mus 132 String Techniques (1) f.
- Mus 133 String Techniques (1) w.
- Mus 134 Woodwind Techniques (1) f.
- Mus 135 Woodwind Techniques (1) w.
- Mus 138 Percussion Techniques (1) f.

Class instruction in the orchestral and band instruments. This class instruction will include a study of methods and materials to be used in the teaching of a beginning student. Given on a laboratory basis with two recitations a week.

Applied Music

- Mus 100 (1-2) f,w.
- Mus 101 (1-2) f,w.
- Mus 200 (1-2) f,w.
- Mus 201 (1-2) f,w.
- Mus 300 (1-2) f,w.
- Mus 301 (1-2) f,w.
- Mus 400 (1-2) f,w.
- Mus 401 (1-2) f,w.

Private instruction in piano, organ, voice, trumpet, trombone, French horn, violin, viola, cello, double bass, flute, clarinet, oboe, saxophone, bassoon, and percussion. Credit variable. One hour lessons per week in major. Jury examination required. Lessons by arrangement with approved instructors.

Mus 221 **Music Theory** (3) f. Altered chords and modulation. Advanced work in ear-training and keyboard harmony. Introduction to contemporary techniques and composition in simple forms. Prerequisite: Music 122. Five meetings per week.

Mus 222 **Music Theory** (3) Modal harmony. Advanced part-writing procedures. Emphasis on keyboard harmony. Prerequisite: Music 221. Five meetings per week.

Mus 260 **Music for the Elementary School** (3) w. Emphasis on methods of teaching music in the elementary classroom and a study of materials to be used. Prerequisite: None.

Mus 322 **Form and Analysis** (3) f. Harmonic and formal analysis of compositions from classic era, formal analysis of compositions from pre-classic era, and introduction to contemporary principles. Prerequisite: Music 222.

Mus 323 **Orchestration** (2) w. Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Music 222.

Mus 350 **History of Music** (3) f. General survey of history of music from Greek period to 18th century. Score reading required.

Mus 351 **History of Music** (3) w. General survey of history of music from 18th century to the present. Score reading required.

Mus 330 **Methods of Teaching Secondary School Music** (2) f. Methods and materials used in teaching instrumental and choral music in junior high and high school. (See Educ 330).

SPEECH AND DRAMA

Sp 101 Speech Techniques (3) f,w. A practical course designed to improve or to develop self-expression. Emphasis is placed on development of principles of effective oral communications. Prerequisite: English 102, or 50 percent or higher on English placement test.

Sp 102 Voice and Articulation (3) f,w. Techniques for improving the speaking voice. Attention to phonetics, articulation, pronunciation, and general expression.

Dr 121 Introduction to the Theatre (3) f. Survey of contributions to dramatic production of all ages by playwrights, directors, designers. Appreciation of dramatic form and style. A humanities course for the non-drama major. Prerequisite: none.

Dr 142, 152, 242, 252 Theatre Laboratory (1) f,w. A laboratory and, whenever possible, lecture course devoted to the mounting of major productions. A total of 4 hours may be taken. Prerequisite: none.

Sp 201 Public Speaking (3) f,w. Practice in preparation and delivery of impromptu and extemporaneous speeches. Prerequisite: English 102 or 104 and completion of 1 unit of high school speech or Speech 101.

Dr 201 Summer Theatre Production (6) s. Includes active participation in the summer theatre presentations. Special instruction in voice and diction, movement, acting and basic stagecraft.

NOTE: Drama 201 A summer theatre program running concurrently with the summer session is to be inaugurated in the summer of 1967 with the opening of the Barn Theatre. The first session will consist of at least two productions. A student enrolling in Drama 201 becomes a member of the resident company composed of area people, faculty, and students. In addition to the production participation the student receives training in voice and diction, movement, acting, and basic stagecraft. Each student apprentice enrolled receives a total of 6 semester hours credit.

Sp 215 Oral Interpretation (3) w. Study and application of principles and techniques of oral reading. Includes analysis of different types of literature with emphasis upon platform presentation of prose and poetry. Prerequisite: sophomore standing.

Sp 301 Discussion (3) f. Study and application of procedures used in solving problems, determining policies, and resolving differences in committees or other small groups. Prerequisite: Speech 101 or Speech 201.

Dr 332 Development of the Drama (3) f. History and study of the development of theatre and theatre arts; forms, style, and structure of drama from the Greeks to the Elizabethan era.

Dr 333 Development of the Drama (3) w. Jacobean to contemporary American theatre. May be taken without having had Drama 332.

Dr 342 Beginning Acting (3) f,w. A basic performance and theory course, analysis and creation of a role; stage movement and pantomime; basic stage techniques. Problems in stage speech and dialects for the stage.

Dr 352 Play Production (3) f. A course dealing with techniques and problems of mounting a play. Includes a basic analysis of the construction of the drama, along with basic elements of costume, stagecraft and make-up.

Dr 362 Stage Costume and Design (3) w. Survey of available materials, period costume, and practical experience in the rendering of costume designs to actual stage costumes.

Dr 372 Directing for the Stage (3) w. Study of the skill and role of the director, script analysis, casting, production administration, and director-actor relationships. Each student enrolled will have a directing project or will assist the staff as student director for a major production.

Sp 401 Teaching of Speech & Drama (2) f. Investigation of standards, methods, and materials for teaching speech and conducting extra curricular speech activities in the high school. Sec. Educ. 330.

Dr 421 Styles in Acting and Interpretation (3) w. Lecture and laboratory study of physical manners, posture, movement, rhythm, gestures, and vocal qualities in relation to various periods of theatre presentation. Prerequisite: Drama 342.

Dr 431 Children's Theatre (3) f. Survey of all forms of literature for children for use in presentation. Laboratory study of various staging techniques in production for children. Prerequisites: Drama 342 and Speech 215.

Dr 441 Elementary Stage Design (3) f. Principles and history of scenic design, sketching, rendering, scene painting techniques. Principles of stage lighting approached from practical and aesthetic values. Prerequisite: Drama 352.

Dr 442 Advanced Stage Design (3) w. Study of design as related to various forms, styles of drama. Application of principles taught in Drama 441. Special problems in design, lighting. Prerequisite: Drama 441.

DIVISION OF SCIENCE AND MATHEMATICS

BIOLOGY

BIO 101 General Biology (5) f,w, sum. One semester general education course for students desiring knowledge of the plant and animal kingdoms. Deals with the physiological aspects of life, cells, tissues and organs as exemplified by plants and animals, and a general survey of the plant and animal kingdoms. Three lectures and two 2 hour labs/week. Prerequisite: none.

BIO 110 General Botany (5) f,w. Scientific study of biological principles as applied to plants. Includes such topics of study as structure and functions of higher plants, cytology, genetics, history, reproduction, physiology and evolution as exemplified by various members of the plant kingdom. A survey of the plant kingdom is included as an integral part of the study. Three lectures and two 2 hour labs/week. Prerequisite: none.

BIO 120 General Zoology (5) f,w. Scientific study of biological principles as applied to animals. Includes such topics of study as cytology, history, genetics, embryology and evolution. A survey of the animal kingdom is made with specific consideration given to the morphology, physiology and reproduction of its various members. Major emphasis is placed on the anatomy and physiology of man in the animal kingdom survey. Three lectures and two 2 hour labs/week. Prerequisite: none.

BIO 200 Genetics (3) w. Comprehensive introduction to the principles of heredity and variation as exemplified by both the higher plants and animals. Emphasis will be placed on the cytological and molecular approach to gene action, linkage, crossing-over and various other genetic mechanisms such as sex-linkage and mutations. Three lectures a week. Prerequisites: Biology 101, 110 or 120.

BIO 210 Microbiology (5) f. Scientific study of the principles of general microbiology with special emphasis on the anatomy, nutrition, physiology and chemistry of bacteria, fungi and other microscopic organisms. The cyclic transformations of elements in nature by microbial activities and the economic aspects associated with industry and medicine will be considered. Three lectures and two 2 hour labs/week. Prerequisites: Biology 101 or 110 and one year of inorganic chemistry or permission of the instructor.

BIO 220 Human Anatomy and Physiology (5) f. Designed to acquaint the student with the development, structure and functions of the human body. Topics include the skeletal and muscular systems, circulation, metabolism, digestion, respiration, the nervous system, the endocrine glands, special senses, embryology and reproduction. Three lectures and two 2 hour labs/week. Prerequisites: Biology 120 w/a grade of C or permission of the instructor.

BIO 300 History of Biology (2) w. A historical survey into the origin and development of the fundamental concepts of biology as well as contemporary developments in the field of biological research. Two 1 hour lectures a week. Prerequisite: Junior standing or consent of the instructor.

BIO 301 Natural History (3-5) f, sum. A course designed to acquaint students with identification, structure, life history, habits and the conservation of common plants and animals with particular emphasis on local species. Designed for elementary and Jr. High teachers and interested members of the community. Not applicable toward a biological science major or minor. Three hours credit for winter semester and five hours credit for summer only. Prerequisite: none.

BIO 302 Field Biology (2) f,w, sum. The course engenders appreciation and understanding of the local flora and fauna, and provides information pertinent to preparation and preservation of specimens for laboratory use. Consist of one lecture and one two hour laboratory each week. At least one Saturday field trip will be required. Prerequisite: General Biology 101 or permission of instructor.

BIO 310 Taxonomy of Flowering Plants (4) w. Designed to acquaint the student with the relationships among selected plant groups, classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora will be emphasized. Three lectures and one, 3 hour lab/week. Prerequisite: Biology 110.

BIO 311 Plant Physiology (5) f. A study of the life processes of plants including metabolism, translocation, growth, development, reproduction and response to internal and external stimuli. Emphasis will be placed on the chemistry of the plant's physiological activities. Three lectures and two, 2 hour labs/week. Prerequisite: Biology 110, and one year of inorganic chemistry. (organic chemistry recommended).

BIO 320 Comparative Chordate Anatomy (5) f. Designed for the serious student of biology or those students planning to enter professional schools of medicine, dentistry or veterinary science. Acquaints the student with the evolutionary trends of chordate structure development with special emphasis on the vertebrate organs and organ systems. Two lectures and three, 2 hour labs/week. Prerequisite: Biology 120.

BIO 321 Invertebrate Zoology (5) f. Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures and two, 2 hour labs/per week. Prerequisite: Biology 120.

BIO 330 Teaching of Science in Secondary School (2) See Education 330.

BIO 409 General Ecology (4) w. A study of plant and animal communities in relation to their environment, placing special emphasis on the flora and fauna of Southwest Missouri. Soils, climate and other major environmental factors responsible for the distribution and association of plants and animals will also be considered. Two lectures and one, 3 hour lab/week. Prerequisite: Biology 110, 120, and 310 or consent of the instructor.

BIO 410 Plant Anatomy (5) f. A comprehensive study of tissues and cellular structure in the higher plants including a comparative study of the structure of roots, stems and leaves of the vascular plants. Emphasis will be given to evolution and development of the various tissues. Three lectures and two, 2 hour labs/week. Prerequisite: Biology 110.

BIO 411 Plant Morphology (5) f. A comprehensive study of the comparative structures, life histories and evolutionary tendencies concerning the vegetative and reproductive organs of the major groups of green plants. Three lectures and two, 2 hour labs/week. Prerequisite: Biology 110.

BIO 420 Animal Physiology (5) f. A comprehensive coverage of the chemical and physical phenomena occurring within living animals, with major emphasis placed on man. Three lectures and two, 2 hour labs/week. Prerequisite: Ten hours of biology and chemistry through organic required. It is strongly recommended that the student also have 5 hours of physics and comparative anatomy.

BIO 425 Vertebrate Zoology (5) w. Classification, morphology, physiology, development and evolution of the classes of vertebrate animals. Three lectures and two, 2 hour labs/per week. Prerequisite: Biology 120.

BIO 426 Histology (5) w. A detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissues. Three lectures and two, 2 hour labs/week. Prerequisite: Ten hours of zoology or consent of the instructor.

BIO 427 Embryology (5) w. A study including detailed comparisons of developmental processes of members of the classes of vertebrates. Three lectures and two, 2 hour labs/per week. Prerequisite: Biology 120 and or Biology 320.

BIO 430 Seminar (1) f,w. A faculty supervised discussion group concerned with reviews and reports covering current topics in the various fields of biology. Faculty members as well as students, will present reviews in their various areas of interest. One seminar/week. Prerequisites: Primarily for biology majors of junior standing or other interested students with at least 15 hours of biological science.

BIO 431 Problems in Biology (1-3) f,w, sum. Consist of individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor. Prerequisite: A minimum of 20 hours in biology and consent of the supervising instructor.

CHEMISTRY

CHEM 105 Introductory Chemistry (5) f,w. The basic principles and theories of general chemistry. Primarily designed as a terminal course in chemistry.

CHEM 115 General Chemistry I (5) f,w. Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of changes. Three lectures, one 3-period laboratory, and one problem-solving session per week. Prerequisites: one and a half units of high school algebra, and a satisfactory score on an entrance test or Algebra 022, or Introduction to the Logic of Mathematics 103.

CHEM 153 General Chemistry II (3) f.w. A continuation of General Chemistry I. Emphasis on applications of chemical equilibrium, electro-chemistry, aqueous solutions, and the chemistry of the elements as periodic groups. Three lectures and one problem-solving session per week. Prerequisite: General Chemistry I with a minimum grade of "C" or permission of instructor.

CHEM 163 Qualitative Analysis (3) w. Identification of cations and anions. Application of principles presented in General Chemistry II. One lecture and six periods of laboratory per week. Prerequisite: Preceded or accompanied by General Chemistry II.

CHEM 205 Quantitative Analysis. (5) f. Includes volumetric, gravimetric, and some potentiometric and spectrophotometric analyses. Three lectures and two three-period laboratories per week. Prerequisite: Eight hours of college chemistry.

CHEM 315 Organic Chemistry I (5) f.w. Deals with both aliphatic and aromatic compounds, their structure, nomenclature, and reaction mechanisms. Three lectures and two three-period laboratories per week. Prerequisite: Five hours of college chemistry.

CHEM 355 Organic Chemistry II (5) w. A continuation of CHEM 315. An extensive treatment of substitution, elimination, addition, free radical reactions and special topics. Prerequisite CHEM 315.

CHEM 405 Physical Chemistry I (5) f. Gases, solids, liquids, homogeneous and heterogeneous solutions and thermodynamics. Theoretical derivations of equations and mathematical treatments of physical and chemical phenomena. Lectures, discussions and laboratory work. Prerequisites: Math 145, 255 and a year of college physics.

CHEM 415 Instrumental Analysis (5) f. Special analytical techniques using spectrophotometry, gas-chromatography, colorimetry, and electrometric methods to include potentiometric, conductometric, polarographic, and electrogravimetric analysis. Prerequisite: Chem 205.

CHEM 453 Physical Chemistry II (3) w. A continuation of CHEM 405. The study of chemical kinetics, electromotive force, photochemistry, colloid chemistry, and atomic and molecular structure. Prerequisite: CHEM 405.

CHEM 455 Advanced Inorganic Chemistry (3) w. Modern inorganic chemistry with emphasis upon coordination complexes, periodic classification of the non-transitional and transitional elements. Prerequisite: CHEM 153.

CHEM 462 Physical Chemistry II Laboratory (2) w. Laboratory to accompany CHEM 453.

CHEM 463 Organic Qualitative Analysis (3) w. Systematic identification of organic compounds and mixtures. Prerequisite CHEM 355.

GEOLOGY

Geol 103 Introduction to Geology (5) f.w. The materials of the earth and those forces producing physiographic changes. Four lectures and one, two-hour laboratory or field trip a week.

DRAFTING

Draf 101 Engineering Drawing I (2) f. Study of use of drawing instruments, lettering, technical sketching, tracing and blue printing. A.S.A. standards are basis for drafting conventions.

Draf 103 Descriptive Geometry (2) w. Practical applications of principles to problems of geology and mining, and mechanical and architectural engineering. Prerequisite, Engineering Drawing 101.

Draf 105 Engineering Drawing II (2) w. Screw thread, bolts and nuts, detail and assembly, gear and cam design topographical and pattern drafting. Prerequisite: Engineering Drawing 101.

Draf 107 Architectural Drawing (2) w. The fundamental principles of house planning, including materials of construction and room arrangements. Plans will be drawn of some suitable building. Prerequisite: Engineering Drawing 101.

MATHEMATICS

Math 002 Programmed course in basic mathematics for students who are deficient in general mathematical skills. (2)

Math 012 Programmed course in beginning algebra. (2)

Math 022 Programmed course in intermediate algebra. (2)

Note: No more than 2 hours credit in programmed courses will count toward an associate degree and no credit will be given for the Baccalaureate degree.

Math 101 Slide Rule (1) f.w. A laboratory course in the use of a log-log rule. A student may be excused if he passes a proficiency test. Meets two hours a week. Prerequisite: trigonometry or concurrent enrollment in trigonometry.

Math 103 Introduction to the Logic of Mathematics (3) f.w. Basic college mathematics with an introduction to sets and the logic of algebra. This course will satisfy the requirement in mathematics for general education. Prerequisite: One year of high school mathematics.

Math 112 Trigonometry (2) w. Study of trigonometric functions. Prerequisite: One and one half units of high school algebra or the equivalent.

Math 113 College Algebra (3) f.w. A course designed for students not majoring in the fields of math, science or engineering. Prerequisite: One and one half units in high school algebra or the equivalent.

Math 115 Algebra and Trigonometry (5) f,w. This course is the equivalent of Math 112 and Math 113. Prerequisite: Three units of high school mathematics and satisfactory score on mathematics placement test. Students not meeting these requirements must make a satisfactory score in Math 022 or 103.

Math 133 Introduction to Programming (2). A study of digital computer systems, programming of a digital computer and the solution of problems. Prerequisite: Math 115.

Math 145 Calculus with Analytic Geometry I (5) f,w. Differentiation and integration of algebraic and trigonometric functions, and plane analytic geometry using vectors. Prerequisite: Math 115 with a grade of C, or four units of high school mathematics and satisfactory score on the mathematics placement test.

Math 255 Calculus with Analytic Geometry II (5) f,w. Differentiation and integration of transcendental functions, polar coordinates, theory of limits, parametric equations. Applications to physical problems. Prerequisite: Math 145 with a grade of C.

Math 265 Calculus with Analytic Geometry III (5) f,w. Solid analytic geometry, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 255.

Math 301 Selected Topics in Mathematics (1) A course to enrich the student's knowledge and promote his interest in various areas of mathematics, especially in the area of modern mathematics. Prerequisite: Math 145.

Math 303 Fundamentals of Mathematical Thought (3) f. An introduction to modern algebra and analysis. Sets, relations, functions, logical development of number systems, infinite series,, introduction to theory of groups, rings, integral domains, and fields. Prerequisite: Math 265.

Math 315 Statistics (3) w. Introduction to the basic concepts of statistical inference and to the methods of statistical analysis. Designed for non-math majors. Prerequisite: Math 113 or equivalent.

Math 317 Problems of Teaching Arithmetic in the Elementary Schools (2) w. Presents purposes, techniques, materials. Also observation of arithmetic classes in public schools. Prerequisite: Math 103 (or an equivalent course).

Math 323 Differential Equations (3) w. Standard types of ordinary differential equations of the first and second order, linear equations with constant coefficients and applications to geometry and physical science. Prerequisite: Math 265.

Math 330 Teaching of Mathematics in the Secondary Schools. (2) w. See Education 330 for description.

Math 333 Geometry (3) w. Concentrated Euclidian geometry theory from a modern axiomatic viewpoint. Includes an introduction to projective and differential geometry. Recommended for prospective secondary mathematics teachers.

Math 343 Abstract Algebra (3) w. Prerequisite or concurrent registration in Math 303. Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains, and fields.

Math 353 Linear Algebra (3) f. The algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite: Math 145.

Math 363 Probability and Statistics (3) f. Introduction to theory of probability and statistics using concepts and methods of the calculus. The Binomial and Poisson probability measures. The central limit theorem. Prerequisite: Math 265.

Math 413 Vector Analysis (3) w. Vector spaces, linear transformations, determinants, eigen-values and diagonalization of symmetric matrices, curl, divergence, gradient, multiple integrals, and the theorems of Green, Gauss, and Stokes. Prerequisite: Math 265.

Math 423 Advanced Calculus I (3) f. A rigorous review of elementary calculus: real number systems, continuous functions, functions of several variables, implicit functions. Prerequisite: Math 265 and 303 or concurrent registration in 303.

Math 433 Advanced Calculus II (3) w. Coordinate transformations, vectors, multiple integrals, Green's theorem, theory of integration, differential equations, Fourier Series. Emphasis on theory rather than applications. Prerequisite: Math 423.

Math 453 Numerical Analysis (3) f. Digital computer programming, finite differences, numerical integration, matrix computation, numerical solution of non-linear differential equations. Solution of many problems on a digital computer. Prerequisite: Concurrent registration in Math 323.

PHYSICS

PHYS 125 Fundamentals of Physical Science (5) f,w, sum. Includes the basic concepts in fundamentals of physics, chemistry, and other physical sciences. Lecture, laboratory and demonstration periods.

PHYS 155 Elementary College Physics I (5) f. Includes the study of mechanics, properties of matter, heat, wave motion and sound. This course does not count on a physics major. Prerequisites: Two units of high school algebra or college algebra 113.

PHYS 163 Elementary College Physics II (3) w. Includes a study of electricity, magnetism, light and topics from modern physics. Lecture, laboratory, demonstration and problem solving periods. This course does not count on a physics major. Prerequisites: Elementary College Physics I.

PHYS 255 General Physics I (5) f,w. Includes the study of mechanics, properties of matter, heat, wave motion and sound. The conservation laws of physics are emphasized. Lecture, laboratory and problem solving periods. Prerequisite: Calculus with Analytic Geometry I. Corequisite: Calculus with Analytic Geometry II.

PHYS 265 General Physics II (5) f.w. A study of electricity, magnetism, and light, with introductions to quantum properties of radiation and matter. Lecture, laboratory and problem solving periods. Prerequisite: General Physics I. Corequisite Calculus with Analytic Geometry III.

PHYS 273 Statics (3) w. The principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Prerequisite: General Physics 255 and concurrent registration in Calculus with Analytic Geometry III.

PHYS 283 Fundamentals of Electrical Engineering (3) w. D. C. networks; branch currents, loop currents and nodal methods; Norton's and Thevenin's theorems; simple magnetic circuits; inductance, capacitance. Three lecture hours per week. Prerequisite: General Physics 265 or should be taken concurrently.

PHYS 323 Atomic and Nuclear Physics (3) w. A study of electrons, photo-electricity, relativity, quantum theory, positive rays, X-rays, elementary spectroscopy, radioactivity, atomic and nuclear structure, nuclear structure, nuclear energy, and fundamental particles. This course is designed for physics majors and engineering majors. Three hours of lecture per week. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 333 Analytical Mechanics (3) Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, central force motion, energy gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hours of lecture per week. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 343 Heat and Thermodynamics (3) Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, low temperature physics, change of phase, and kinetic theory. Three hours of lecture per week. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 353 Electricity and Magnetism (3) Includes study of electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties of matter, induced electromotive force, electric circuits, Maxwell's equations, and electromagnetic waves. Three hours of lecture per week. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 363 Physical Optics (3) Wave motion, Huygen's principle and theories of light are studied. Analytical study of polarization, reflection, refraction, diffraction, dispersion, crystal optics, and electromagnetic theory of light is included. Three hours of lecture per week. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 373 Intermediate Physics Laboratory (3) Experiments in mechanics, including mechanical wave phenomena, heat transfer, thermodynamic measurements, electrical measurements, precision calibration of electrical instruments, and geometrical and physical optics. Prerequisite: Calculus with Analytic Geometry III and General Physics II.

PHYS 383 Modern Physics Laboratory (3) Experiments in ionization potentials, photoelectric effect, spectroscopy, detection and properties of nuclear radiation, and measurements of the charge and mass of the electron. Prerequisite or Corequisite: Atomic and Nuclear Physics 323.

PHYS 423 Nuclear Physics (3) Radioactivity, nuclear stability, nuclear forces, nuclear structure, fission, fusion, dynamics of nuclear reactions, nuclear energy, neutron physics, particle accelerators and fundamental particles. Three hours of lecture per week. Prerequisite: Atomic and Nuclear Physics 323.

DIVISION OF SOCIAL SCIENCE

HISTORY

HIST 104 History of the United States (5) f,w, sum. The foundations of American nationality, with emphasis on the European heritage, evolution of colonial and national institutions, social and intellectual problems and the war between the states; the post-Civil War period with emphasis on the development of labor, farm, and business organizations, the growth of the progressive tradition in politics and the United States' involvement in contemporary world affairs.

HIST 200 Western Civilization (5) f,w. Development of Western ideas and institutions from the origin of civilization in the ancient Near East to the present.

HIST 203 Modern European History 1500 to 1815 (3) f. The History of Europe from the Renaissance and Reformation to Waterloo, with emphasis upon the origin and development of modern national states.

HIST 204 Modern European History from 1815 (3) w. The history of Europe from Waterloo to the present with emphasis upon the origin and development of international conflict in the 20th century.

HIST 300 Social and Intellectual History of the United States to 1877 (3) f. Thoughts and ideas that have determined United States' intellectual, cultural, and social life to 1877.

HIST 301 Social and Intellectual History of the United States from 1877 to Present (3) w. Thoughts and ideas that have determined United States' intellectual cultural and social life from 1877 to the present.

HIST 313 Mediterranean World (3) w. Growth and conflict in Mediterranean Europe and adjoining regions during the late medieval, Renaissance and Reformation periods.

HIST 314 Ancient History (3) f. The institutional and cultural development of ancient lands in and near the Mediterranean.

HIST 315 Medieval History (3) w. European development from the fall of Rome to the age of exploration.

HIST 318 Diplomatic History of the United States (3) w. History of United States foreign policy, 1789 to present.

HIST 319 Economic History of the United States (3) f. Development of the American economy since the Civil War.

HIST 402 Readings in History (1-3) f,w, sum. Individual studies in particular areas of history.

HIST 404 European Intellectual History to 1870 (3) f. The foundations of modern thought in Europe from the enlightenment to the mid-19th century.

HIST 405 European Intellectual History since 1870 (3) f. Trends in European thinking since 1870.

HIST 408 History of England (3) f. A study of the rise and development of the English people and their institutions.

HIST 412 History of a Modern Nation (3) w. Political, social, economic, and intellectual survey of a country. (Country may be changed from year to year).

HIST 416 Totalitarianism (3) f. Historical development of societies dominated by one group that maintains absolute control by illegalizing all other control groups.

HIST 418 English Legal and Constitutional History (3) f. A study of the origin and growth of British institutions in relation to political and economic conditions. Prerequisite: 408.

HIST 420 Far Eastern History (5) w. A survey of the history of Asia with emphasis on the development of modern China, Japan, and India.

POLITICAL SCIENCE

PoSc 120 United States Government (3) f,w, sum. Studies the theories, objectives, problems, and organization of United States government.

PoSc 128 United Nations (1) f. Examines the structure, capabilities, values and limitations of the United Nations.

PoSc 220 International Relations (3) f. Contemporary International affairs, control of national foreign policies and competition and cooperation in legal, political, economic and social fields.

PoSc 222 State and Local Government (2) f,w, sum. The general structure, operation and problems of state and local governments.

PoSc 224 Current World Affairs (3) w. Examines the current world problems, their causes, results and possible solutions.

PoSc 318 Political Parties (3) f. A study of the development, organization, and operation of political parties in the United States.

PoSc 320 American Presidency (3) w. Explores the various roles of the President of the United States and the importance of the office.

PoSc 324 **Comparative Government** (3) w. An examination of the governments and politics of major countries in comparison with one another and with the United States.

PoSc 328 **Political Theory** (3) w. An examination of the political ideas which have developed the United States government.

PoSc 332 **Municipal Government** (3) f. Studies the structure, legal status, functions and organization of municipal government.

PoSc 420 **Totalitarianism** (3) f. An examination of non-democratic governments and political systems in comparison with one another and with the United States.

PoSc 422 **English Legal and Constitutional History** (3) w. The development of English political and legal institutions with emphasis on the Anglo-Norman background, the rise of parliament, Tudor absolutism, the Stuart period of revolution, development of the Cabinet, nineteenth century democratization, and evaluations resulting from the crises of the twentieth century.

PoSc 424 **Constitutional Law** (3) w. The principles, nature, and meaning of the U.S. Constitution as determined by Supreme Court rulings; includes an analysis of the national court system, judicial review, federalism, separation of powers, commerce powers, taxing powers, contract clause, due process clause, equal protection clause, and civil liberties.

PoSc 428 **Public Administration** (3) f. The concepts and practices of organizations and management in the executive departments of national, state, and local government; includes an analysis of bureaucracy, administrative theory, budgeting, personnel, and administrative leadership.

PoSc 432 **Readings in Political Science** (1-3) f,w, sum. The individual study in a particular area of political science.

SOCIOLOGY — PHILOSOPHY — ANTROPOLOGY

Soc 140 **Introduction to Sociology** (3) f,w, sum. This course introduces the systematic study of society. Emphasis is placed upon the major concepts of sociology and the scientific point of view in dealing with social phenomena.

Soc 144 **Family** (3) f. Development of family relationships throughout the life cycle. Attention is given to courtship and engagement as well as factors promoting satisfactory family relationships.

Soc. 152 **Introduction to Anthropology** (3) w. Brief attention to physical anthropology; major concern is with cultural anthropology. Comparisons between "preliterate" and "literate" cultures.

Soc 240 **Social Work** (3) w. The historical development, philosophy, and theory forming the basis for the professional practice of social work; personal and educational requirements for the career opportunities. Prerequisite: 140.

Soc 248 **Social Problems** (2) w. Study of the "problem" areas and social "issues" in modern society. Considers personality adjustment, strains, family problems, population problems, forms of deviancy, and group conflict. The latter part of the course explores "solutions" and social engineering programs.

Phil 280 **Introduction to Philosophy** (3) f. Comparative survey of major types of philosophy, and of representative problems in philosophy.

Phil 284 **Ethics** (3) w. Exploration of the problem of value, personal moral attitudes and standards, comparative survey of major ethical systems, and evaluation of the chief ethical struggles in contemporary society.

Soc. 320 **Sociology of Religion** (3) f. Study of religion as a social institution. Comparative religions considered briefly. Major attention to the relationships of religion to other social institutions in contemporary society.

Soc 340 **Social Stratification** (3) f. Analysis of the sociological processes in relation to social situations and interpersonal behavior. Study of factors which account for differences in influence, power, and social prestige. Prerequisite: Sociology 140 or permission of the instructor.

Soc 344 **Criminology** (3) w. Examines the agencies and institutions which deal with offenders, Particular attention is given to treatment of the offender, as well as to programs of crime prevention. Prerequisite: Sociology 140.

Soc 442 **The Community—Rural and Urban** (3) w. Survey of the operation of social processes in groups which share common bonds of territory and cultural interests. Limited attention to the international community. Major attention to the American scene, including the regional, rural, urban, ethnic, and status communities.

Soc 444 **Juvenile Delinquency** (3) Consideration is given to theories of crime causation and methods of punishments as a background for the study of juvenile delinquency. Emphasis is placed upon factors of causation as revealed through personal family and community situations conditioning delinquent behavior; analysis of concrete cases of juvenile delinquency; and examinations of current methods of dealing with juvenile offenders and programs for the prevention of delinquency. Prerequisite: Sociology 140.

GEOGRAPHY

Geo 220 **Regions and Nations** (3) f. A survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Geo 225 **Geography of the United States** (3) f. Emphasis on land forms, resources and climate as related to peoples of various geographic regions of the United States.

Geo 227 **European Geography** (3) w. A survey of Europe's natural and cultural regions and their influence upon man with a special emphasis upon continental and world relationships.

Geo 230 **Latin American Geography** (3) w. Stress will be placed upon natural economic and cultural aspects of individual countries, their growing importance in world affairs and their relation to Pan-Americanism.

Geo 335 **Geography of the Soviet Union** (3) w. The physical, cultural and regional geography of the Soviet Union with especial emphasis upon expansion into Soviet Asia.

Geo 340 **Geography of Africa** (3) f. A description of its natural regions, the importance of climatic zones upon its development; the major cultural divisions; European imperialism and its effects upon the emerging African nations today.

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